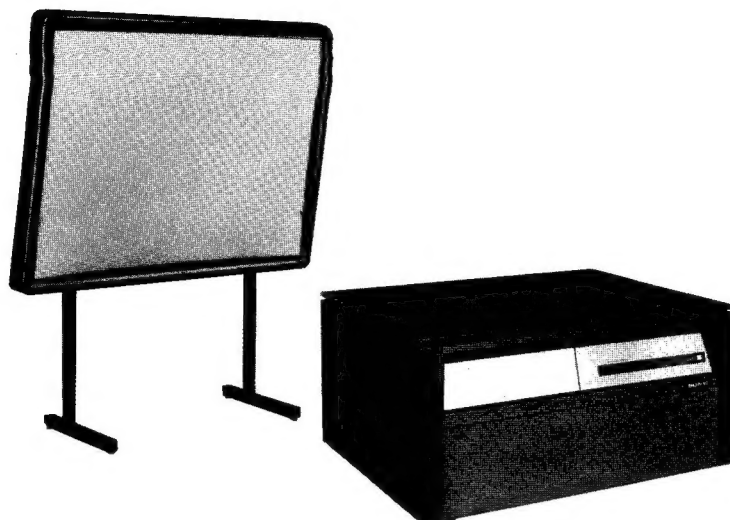


# KP-5020PSE/7220PSE

## RM-606

## SERVICE MANUAL



August, 1981

KP-5020PSE

### SPECIFICATIONS

**Projection System:** 3 picture tubes, 3 lenses  
horizontal in-line system

**Picture Tube:** 5.5-inch high-brightness monochrome tubes

**Projection Lens:** F1.1/140 mm glass lenses

**Screen Material:** Aluminum foil concave screen

	KP-5020PSE	KP-7220PSE
Projected picture size (measured diagonally)	50 inches	72 inches
Audience area Viewing distance	3.0 minimum to 18.3 m maximum	3.6 m minimum to 24.4 m maximum
Optimum seating arrangement	Within approx. 45 degrees from center	
Throwing distance	Approx. 1.8 m	Approx. 2.5 m

**Television System:** CCIR system B, G and H

**Color System:** PAL/SECAM/NTSC4.43

**Channel Coverage:** VHF channels E2 — 4 (Band I)  
VHF channels E5 — 12 (Band III)  
UHF channels E21 — 68 (Band IV/V)

**Antenna:** 75  $\Omega$  standard antenna socket

**Speaker:** 2 speakers, 10 cm dia.

**Power Output:** 5 W + 5 W (with 10 % harmonic distortion)

**Audio Outputs:** LINE OUT (2 phono jacks)  
—5 dB, approx. 10 k $\Omega$   
HEADPHONES (stereo binaural jack)  
Accepts low and high impedance headphones.

**Power Requirements:** 220 V ac.(adjustable to 110, 127 or 240 V by a qualified service person), 50/60 Hz

**Power Consumption:** 145 W  
7 W (in stand-by condition)

**Dimensions:** Projector;  
Approx. 830 (w) x 420 (h) x 650 (d) mm  
including projecting parts and controls  
Screen;  
See the figure.

**Weight:** Projector;  
Approx. 66 kg  
including top board of 13 kg  
Screen;  
KP-5020PSE: Approx. 8.9 kg  
KP-7220PSE: Approx. 17.2 kg  
including screen supports

**Accessories Supplied:** Remote Commander RM-606  
IEC Antenna Connector Plug

— Continued on next page —



# COLOR VIDEO PROJECTION SYSTEM SONY®

MON

## Remote Commander RM-606

### Remote Control

System: Infrared control

### Power Requirements:

4.5 V dc

3 batteries size AA (IEC Battery Designation R6)

Dimensions: Approx. 68 (w) x 28 (h) x 144 (d) mm

Weight: Approx. 164 g including batteries

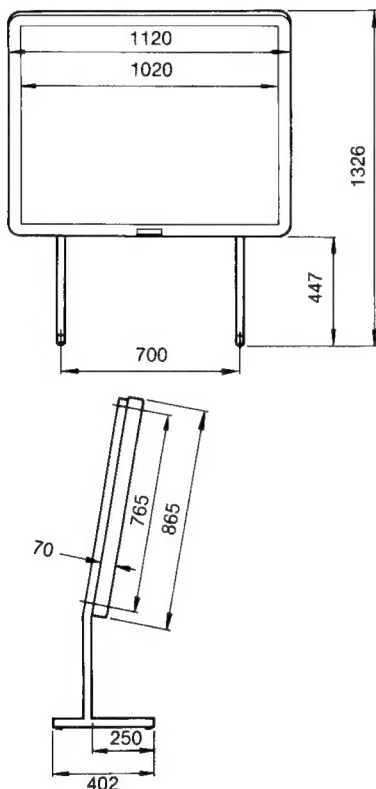
Accessories Supplied: Battery size AA 3 pcs.

Design and specifications are subject to change without notice.

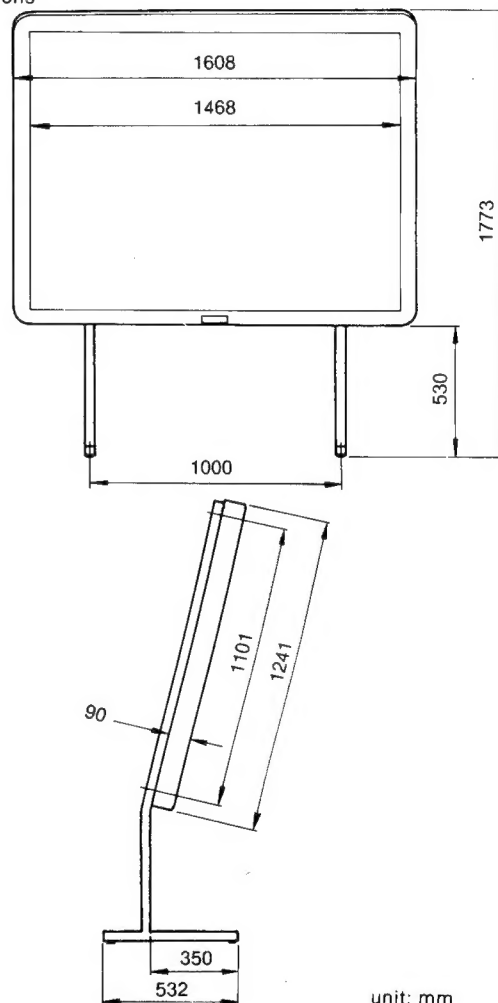
### NOTICE:

Appliance conforms with EEC Directive 76/889 regarding interference suppression.

KP-5020PSE  
screen  
dimensions




KP-7220PSE  
screen  
dimensions



unit: mm

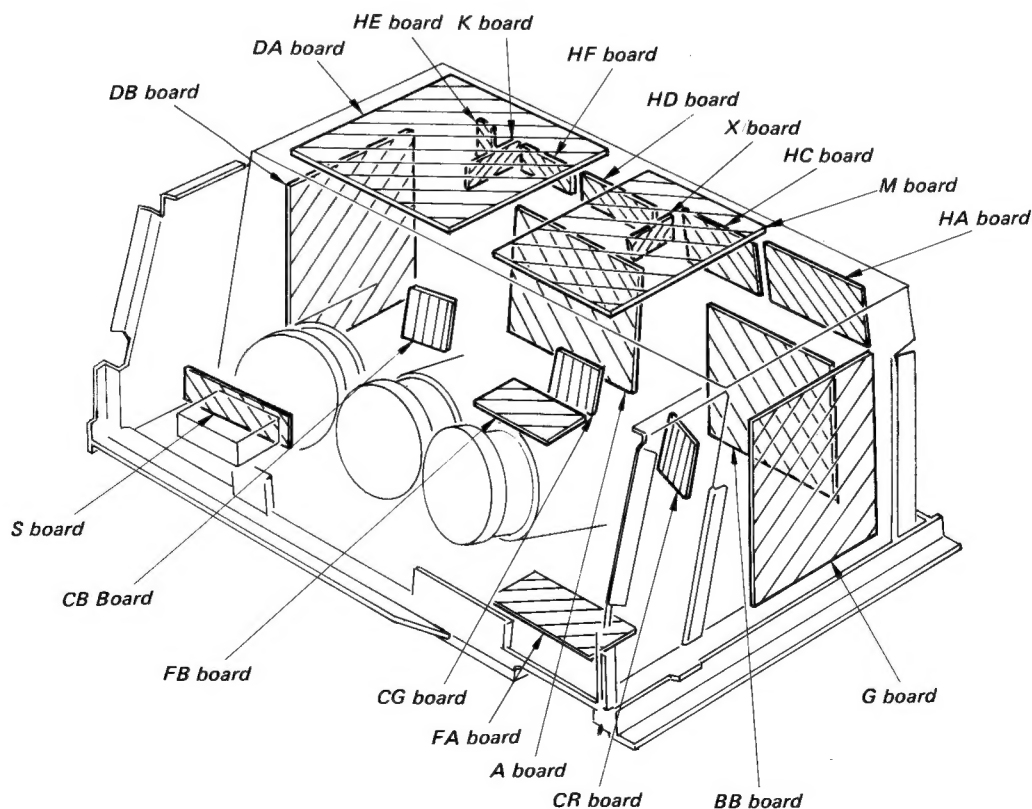
### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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## CIRCUIT BOARDS LOCATION

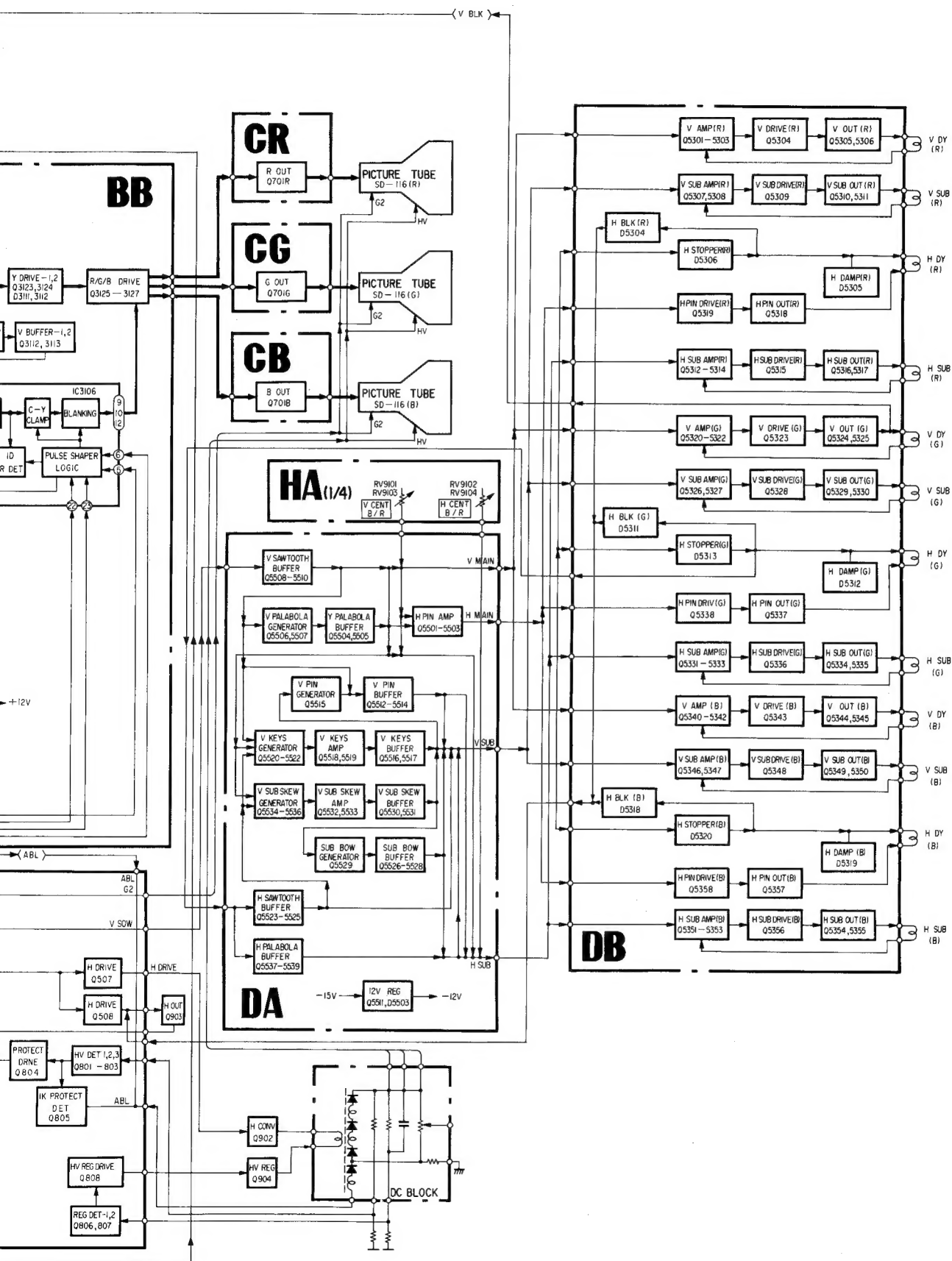


### -1. BLOCK DIAGRAM

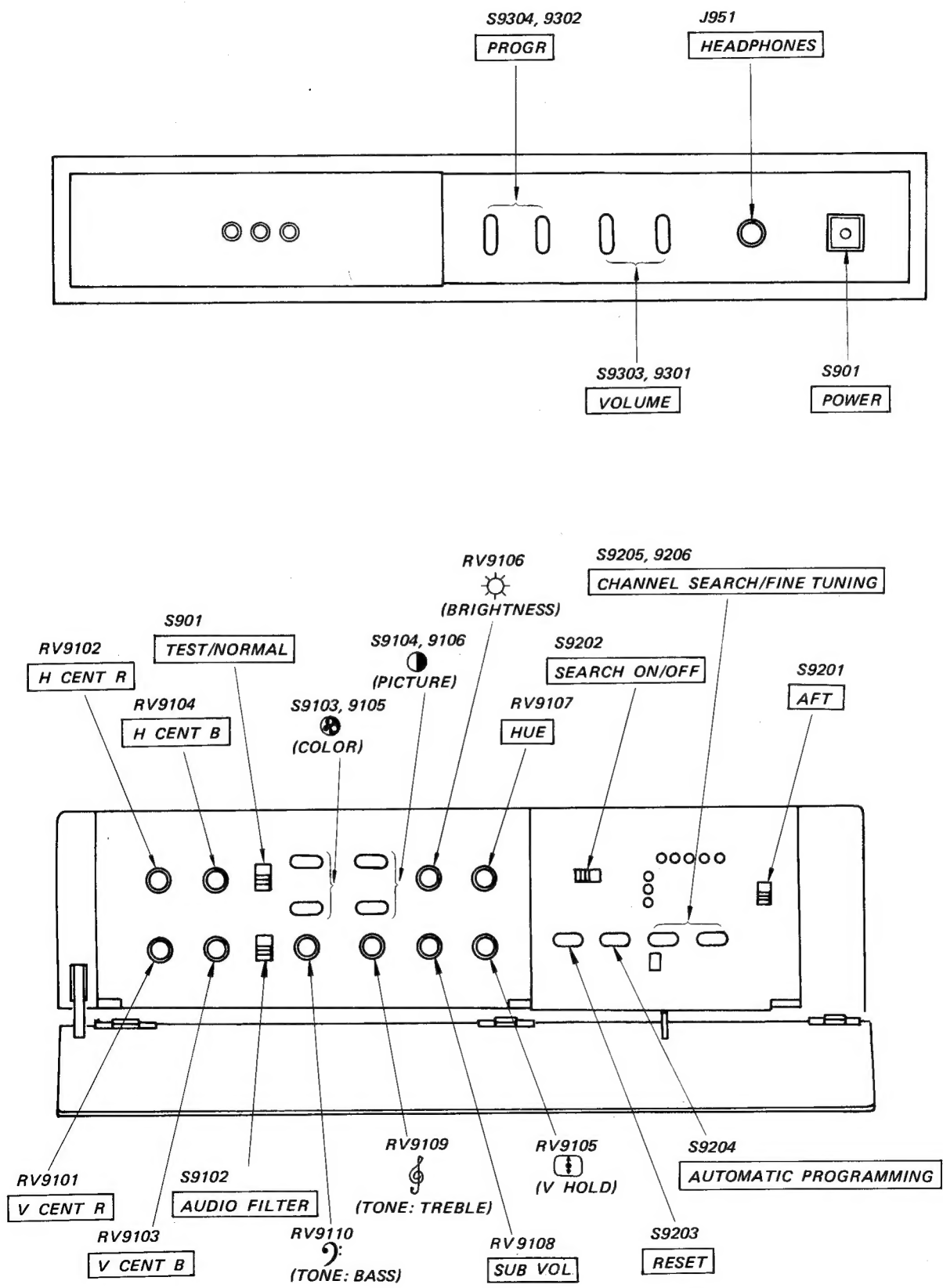






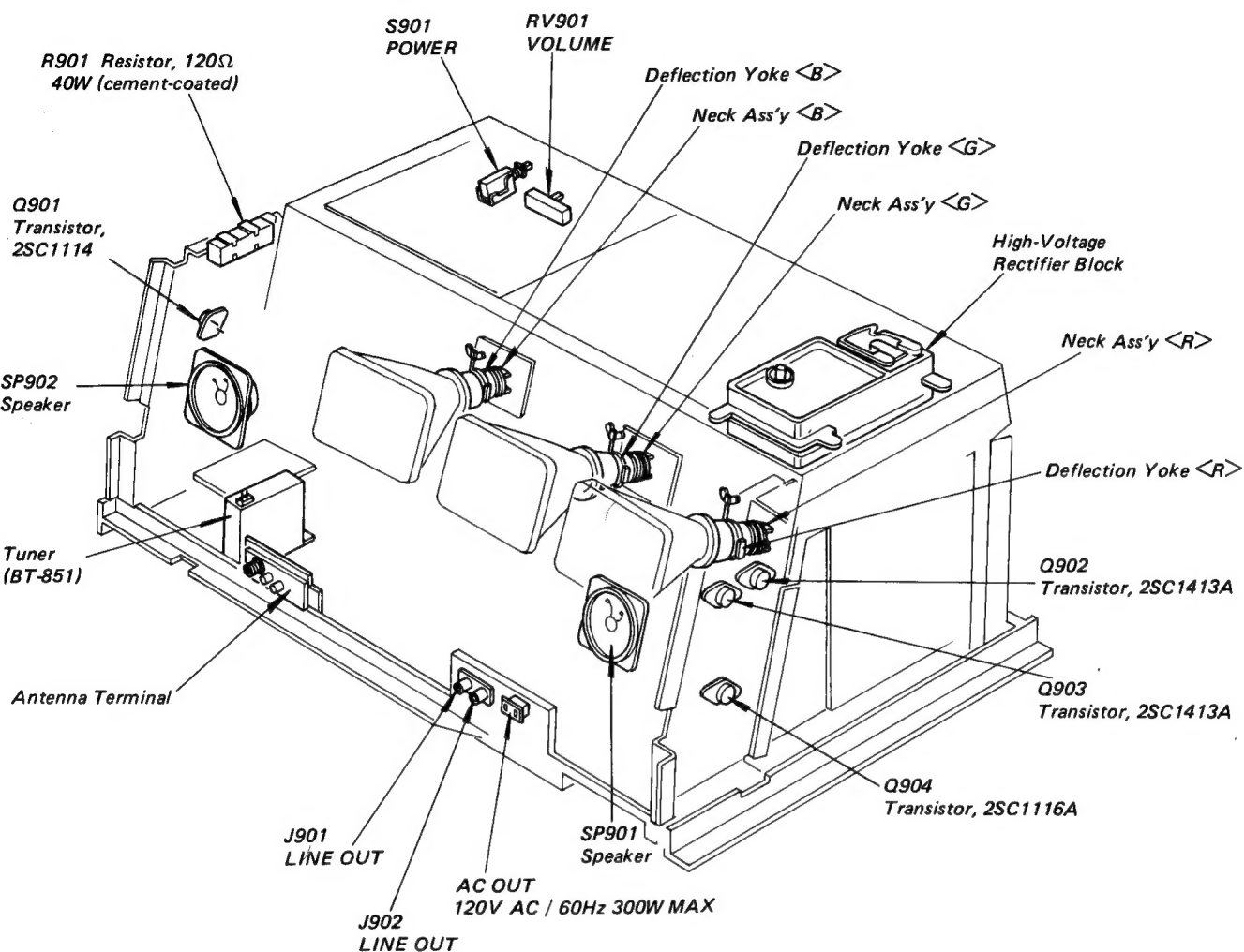


1-2. CONTROL PANEL VIEW





### 1-3. INTERNAL VIEW

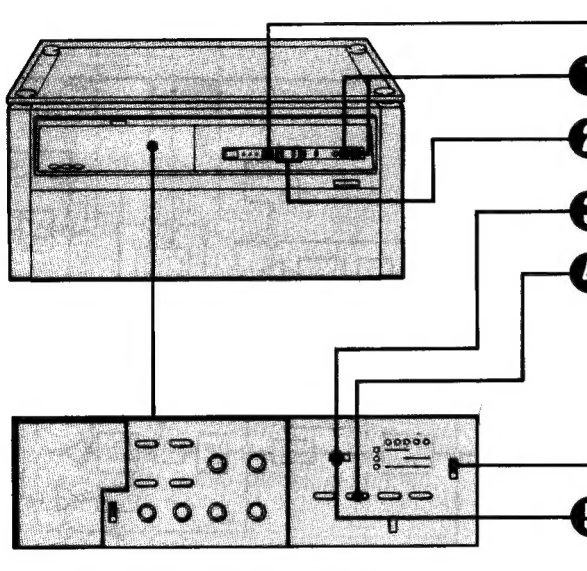


1-4. PROGRAM PRESETTING

Once you preset the programs broadcast in your area, program selection is simply made by pressing the PROGR. buttons on the projector, or by using the hand-held remote commander. You can preset as many as 16 programs including other program sources such as a video tape recorder. Perform program presetting by following one of the two procedures; automatic programing or manual programing.

AUTOMATIC PROGRAMING

With the automatic program search system, receivable VHF and UHF channels in our area can be preset automatically in numerical sequence; from the lowest frequency VHF channel through the highest UHF channel.



Program indicator

1 Push the ① button in. The pilot lamp will light.

2 Push the + or - PROGR. button until program number 1 appears on the program indicator.

3 Push the SEARCH ON/OFF button to ON. The program number will blink.

4 Push the AUTOMATIC PROGRAMMING button. Automatic programing will begin. The first channel found will be memorized on the first program position. This tuning-memorizing procedure will be repeated in sequence. When no more station can be found, the automatic programing will stop at the highest UHF frequency.





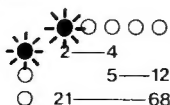
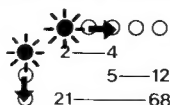
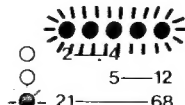
- Push this button again to repeat the same programing on the remaining program positions, if desired.
- Refer to the chart as a guide.

The position of the AFT switch does not matter.

5 When the presetting is completed or if you wish to interrupt the presetting, push the SEARCH ON/OFF button again (OFF) and make sure that the AFT switch is now set to ON. The program number will stop blinking.

**Note**  
After presetting has been completed, select the program in numerical sequence with the PROGR. buttons to make sure of the results of the automatic programing referring to your local TV listings.

Guide for automatic programing procedure

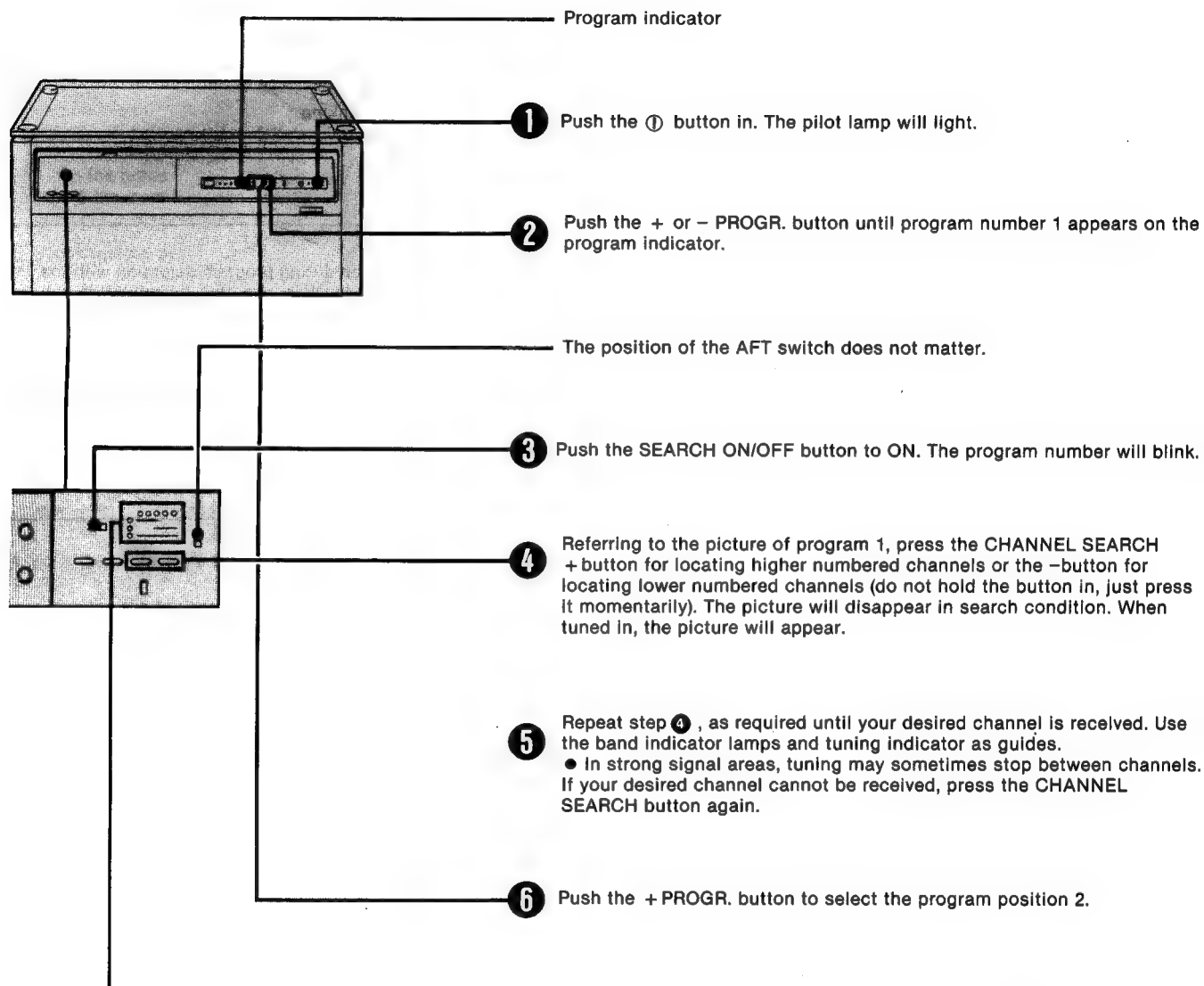
	step ③ (SEARCH ON)	step ④ (AUTOMATIC PROGRAMMING)	When the automatic programing is finished	step ⑤ (SEARCH OFF)
picture sound	A program on position 1 will appear, if received.	No picture and no sound between stations. When tuned in and memorized, the program will appear. (From the lowest frequency VHF channel through the highest UHF channel.)	No picture, no sound, but snow and noise only.	same as before
program indicator	The number "1" will blink. 	The number corresponding to the program position being preset will blink continuously. (In sequence from "1") 	The number corresponding to the first program position which has not been preset will continue to blink. example 	The number will stop blinking. example 
tuning indicator and band indicator lamps	Indicate the approximate position of the channel number. 	Indicate the approximate position of the channel number being searched. 	Indicate UHF channel 68. 	same as before

## MANUAL PROGRAMMING

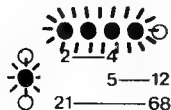
With the manual program search system, your desired channels or other sources (a VTR., etc.) can be preset in the desired sequence.

Any program position can be set to any frequency from below channel 2 to the highest UHF TV frequency. Consult your local TV listings to find out the active channels in your area.

Make a list of your desired VHF and UHF channels or some other source and arrange them in the desired sequence.

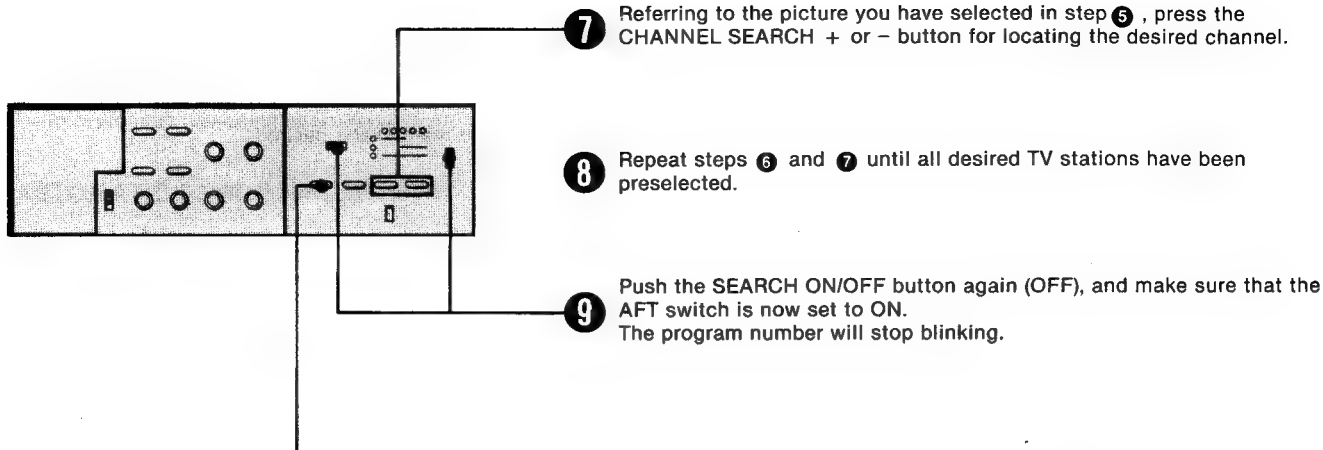


Ex. VHF channel 9



### Tuning indicator and band indicator lamps

The red lamp when lit shows you are in the band I including channels 2 through 4, the yellow lamp when lit shows you are in the band III including channels 5 through 12 and the green lamp when lit shows you are in the band IV/V including channels 21 through 68. With each of these bands, the multi-segment tuning indicator will show in what portion of the band you are tuned to at any given moment, with the leftmost segment indicating the lowest frequency within each band, and the rightmost segment indicating the highest frequency within each band.



**7** Referring to the picture you have selected in step **5**, press the CHANNEL SEARCH + or - button for locating the desired channel.

**8** Repeat steps **6** and **7** until all desired TV stations have been preselected.

**9** Push the SEARCH ON/OFF button again (OFF), and make sure that the AFT switch is now set to ON. The program number will stop blinking.

#### RESET button

Alternatively, to tune in the desired station, you may use the RESET button to erase any memory on the selected program position, and to position its tuning to a frequency below channel 2. Then use the + CHANNEL SEARCH button to locate your desired station.

- The tuning will stop at the highest UHF frequency. In this case, press the RESET button or -CHANNEL SEARCH button.

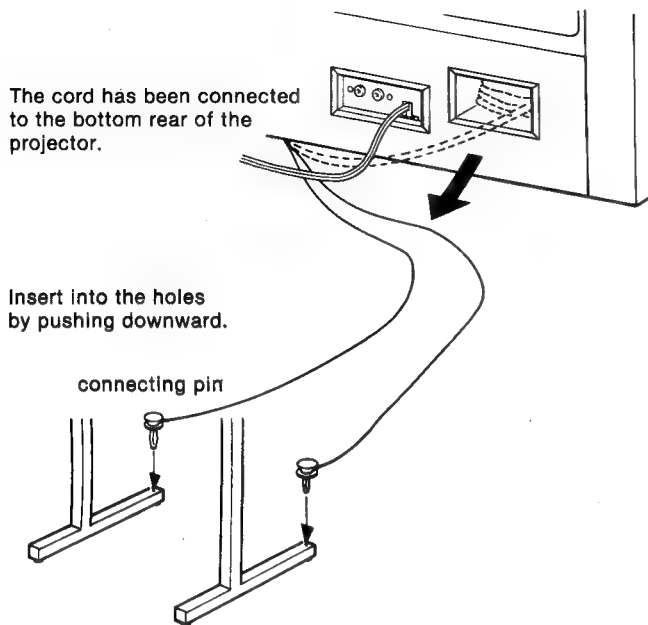
**To skip an unused position** during program selection with the + and - PROGR. buttons, also use this button. With the SEARCH ON/OFF button set to ON, select the program position to be skipped by pressing the PROGR. buttons, and then press the RESET button to erase any memory. With the SEARCH ON/OFF button set to OFF, the program position on which any memory has been erased will be skipped and you can reach the desired program quickly.

- If this program position is selected directly with the program number button on the commander, only the program number will appear.

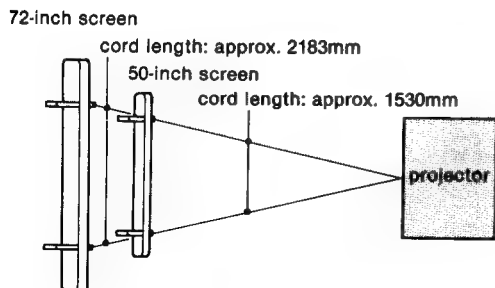
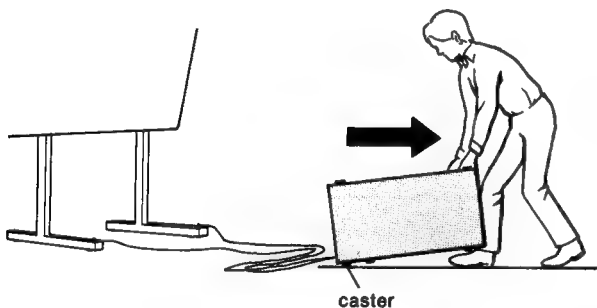
**Note:** To view the playback picture from a video tape recorder on the projector preset the inactive channel in your area in accordance with the instruction manual furnished with the video tape recorder. Any program position can be preset for a VTR. (The use of program position 16 is recommended.)

## SETTING UP THE SYSTEM

- 1 Take the positioning cord out of the accessory container and connect both ends of the cord to screen support feet.

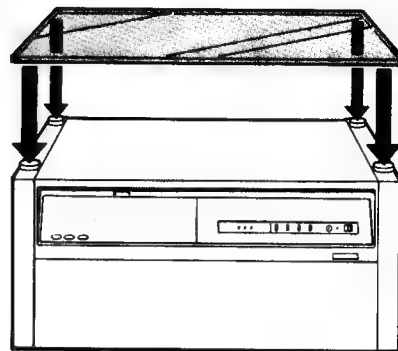


- 2 Move the projector until both sides of the cord are equally tensioned. When moving the projector, lift up the front side and roll it on the casters.



- 3 Pull out the connecting pins to remove the positioning cord from the screen support feet. Store the positioning cord in the accessory container.

- 4 Put the top board (made of tempered glass) on the projector. The projector may thus be used as a center table.

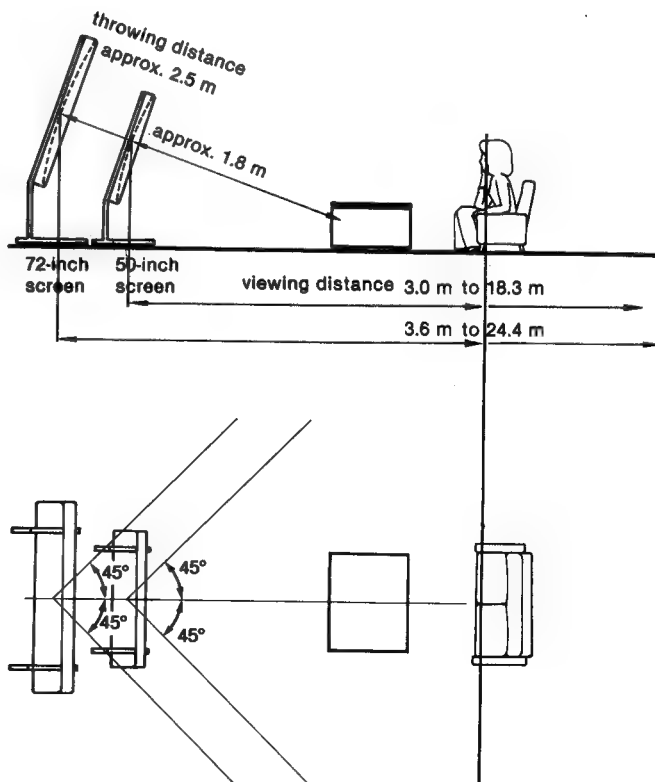


- 5 Remove the lens cover.

### Note:

- The projector and the screen should be located on the same horizontal level. Avoid setting them on a slanting floor. When placing the projector or the screen on an uneven floor, turn counterclockwise the rubber feet on the bottom front of the projector or on the bottom of the screen supports until the set is level.
- The projector and the screen should be installed perpendicular to each other. (This can be checked in the following registration adjustments.)

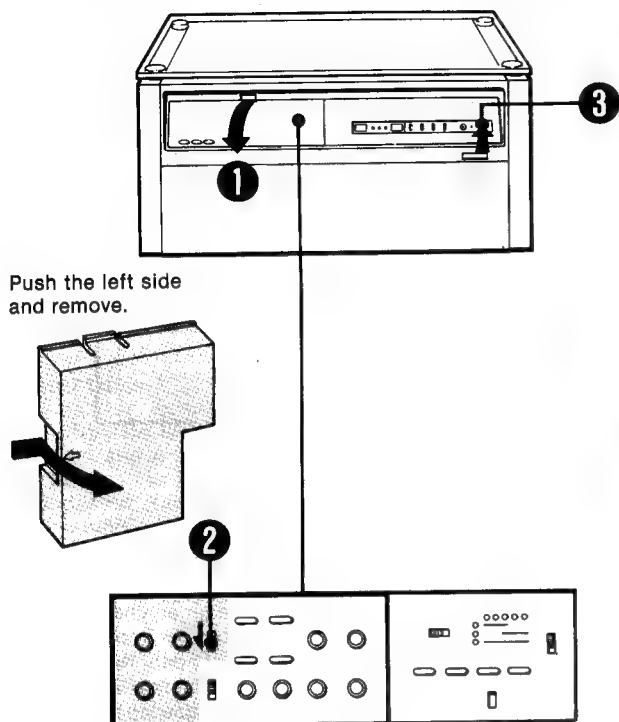
### Audience area



## 1-6. REGISTRATION ADJUSTMENT

### Preparation

① Open the front panel and remove the cover to expose the controls.

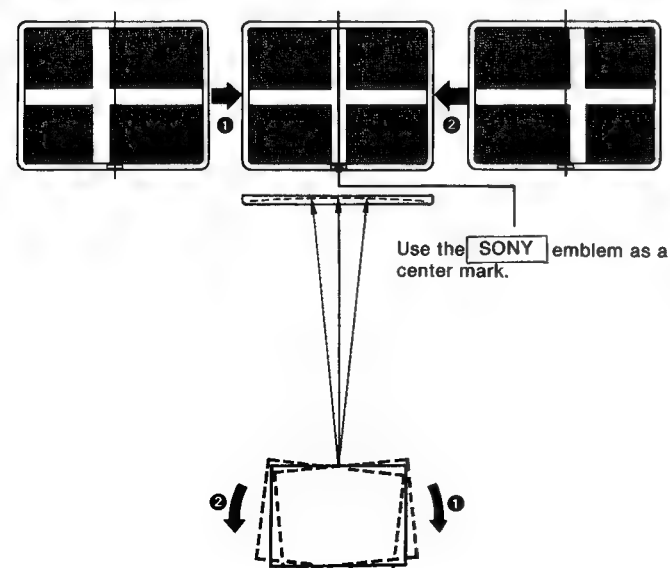


② Set the TEST/NORMAL switch to TEST.

③ Press the ① button to switch on the projector.

A built-in test pattern will be displayed on the screen.

④ Check that the white vertical line is displayed at the horizontal center of the screen. If it is not, move the right or left side of the projector slightly to center the line (to install the projector perpendicular to the screen).



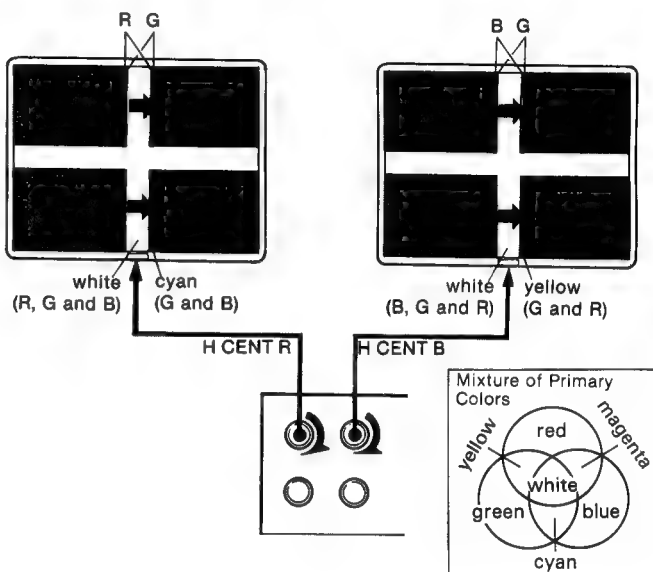
### Adjustment

After transporting the set from one place to another, the red, green and blue lines may not be superimposed (the cross may not be seen as white).

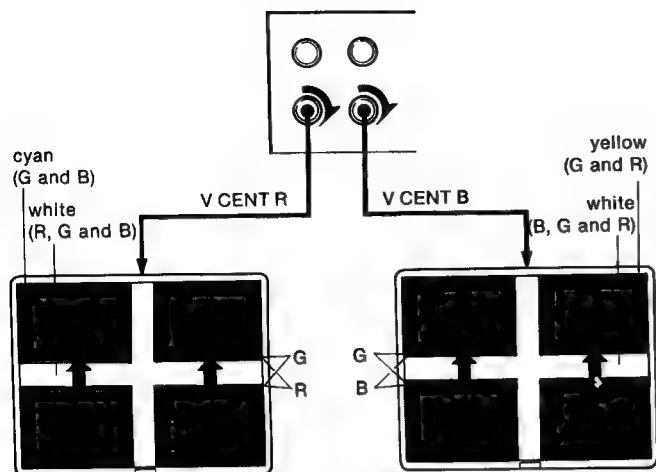
If this symptom is noticed, perform the registration adjustment yourself. Should the difficulty persist, contact your Sony dealer.

As you turn the controls clockwise, the lines move in the direction indicated in the illustrations. To move the lines in the opposite direction, turn the controls counterclockwise.

① Adjust the H CENT B and H CENT R controls to converge the blue and red vertical lines with the green line.



② Adjust the V CENT B and V CENT R controls to converge the blue and red horizontal lines with the green line.

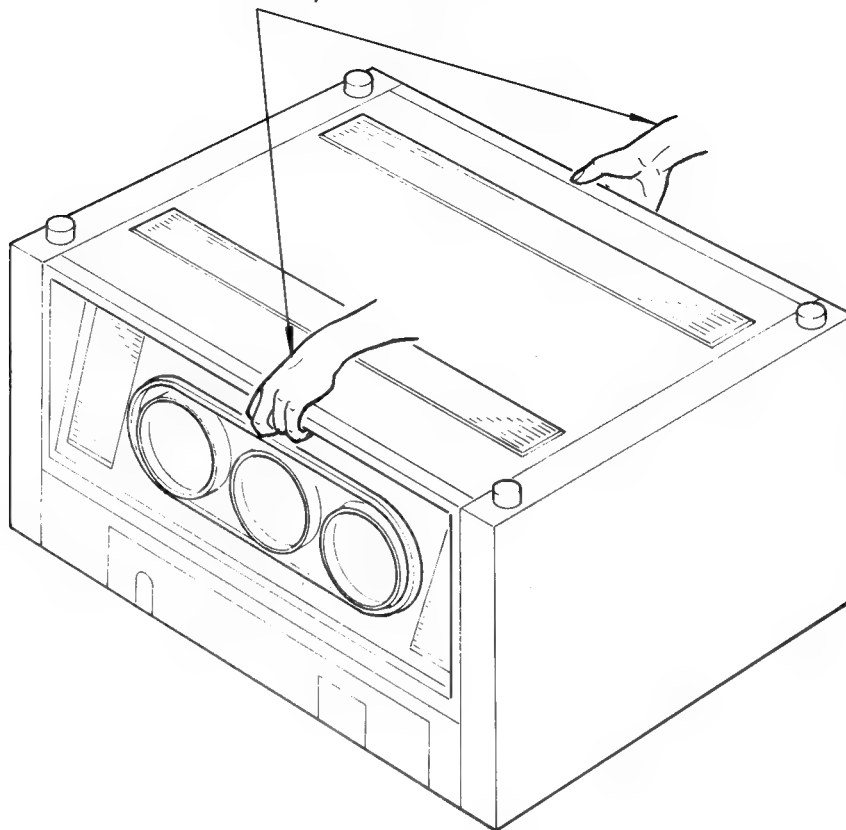


③ Repeat steps ① and ② until the cross appears white.

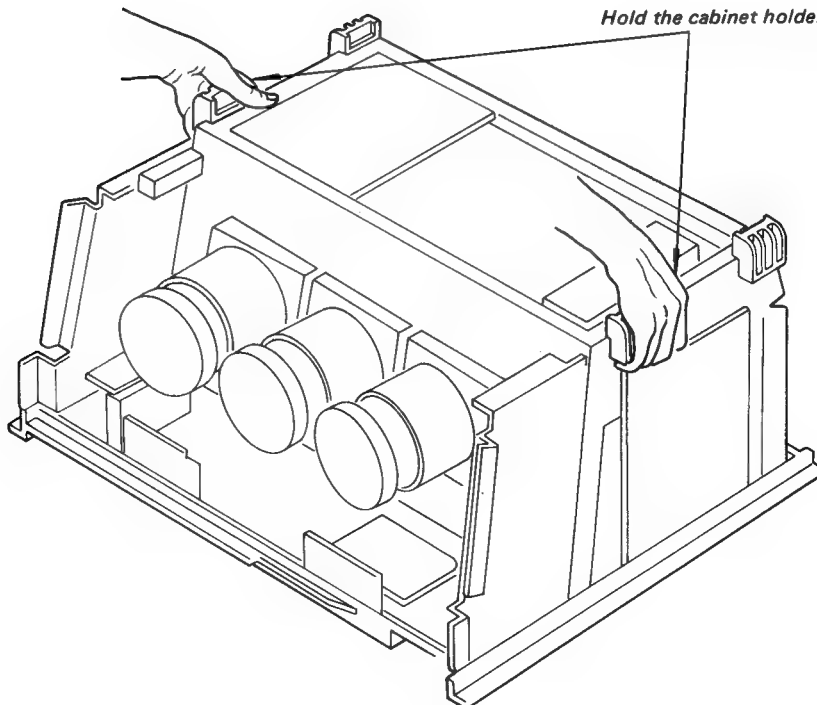
④ After the adjustment is completed, set the TEST/NORMAL switch to NORMAL, replace the cover, and close the front panel.

## 1-7. HOW TO CARRY

*Hold the center of lens panel and control panel assemblies.*



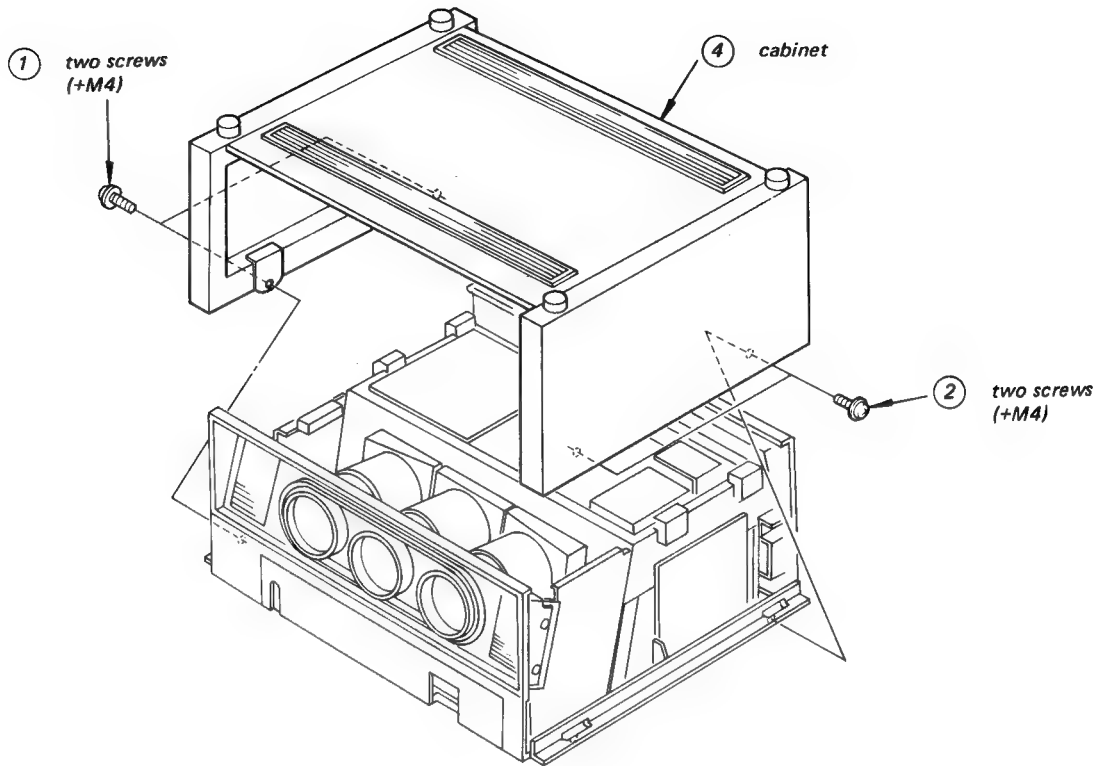
*Hold the cabinet holders.*



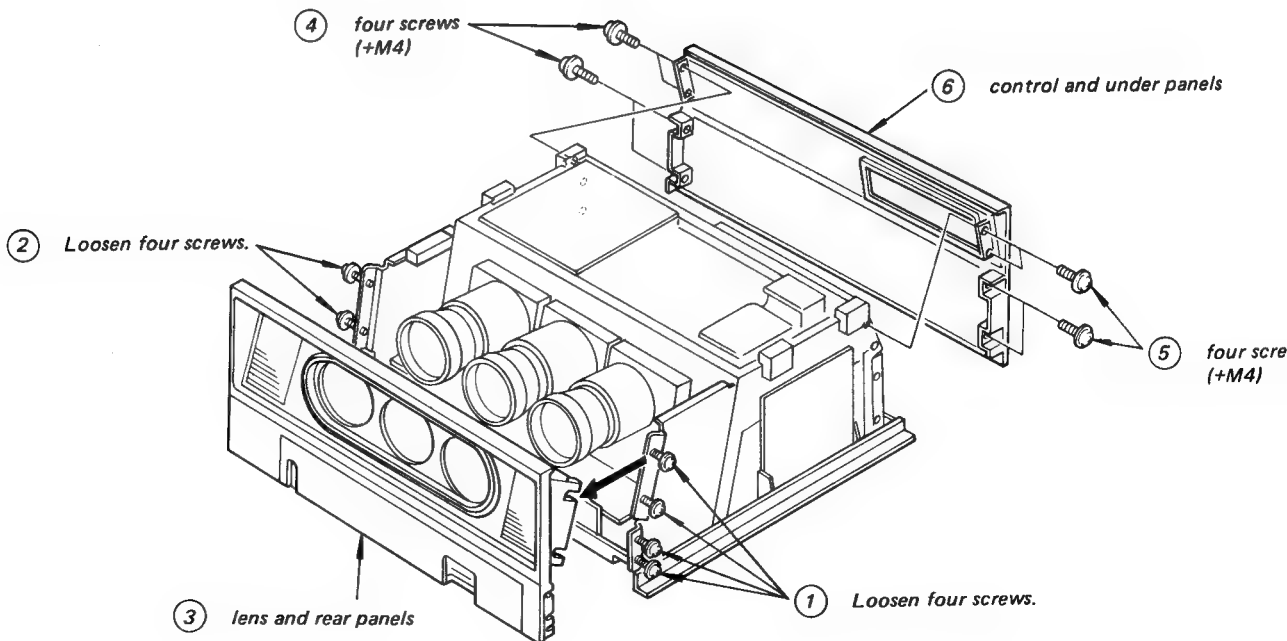


## SECTION 2 DISASSEMBLY

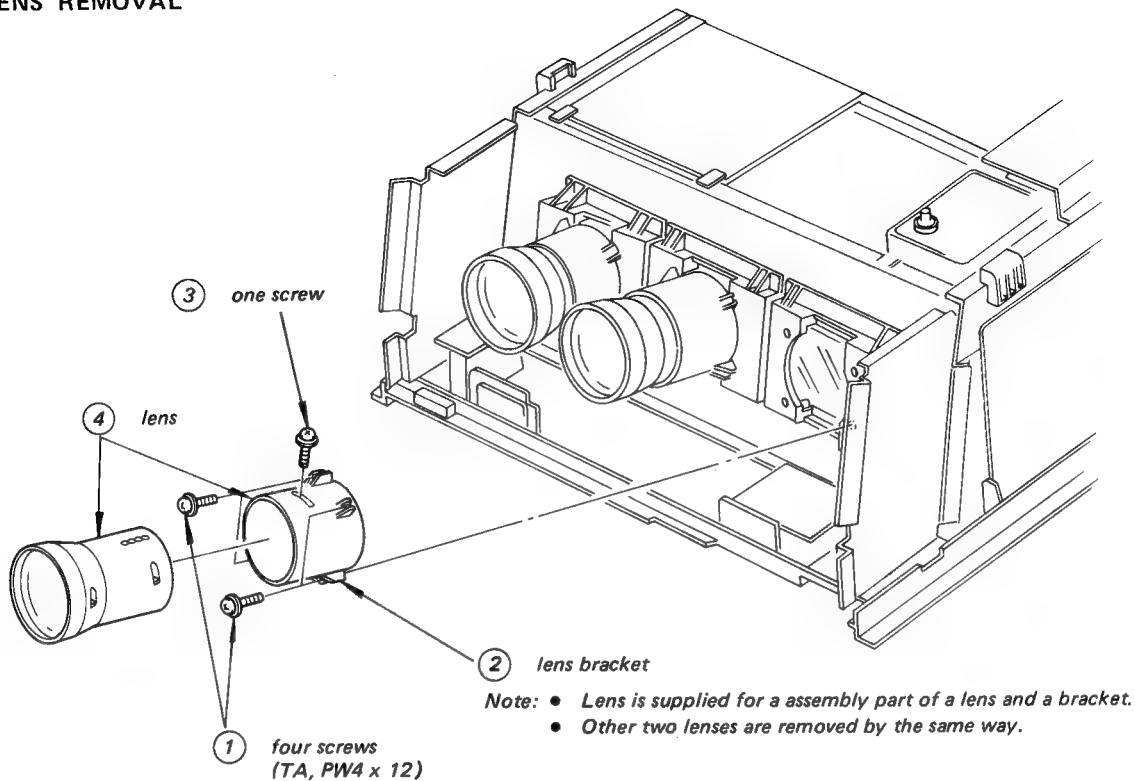
### 2.1. CABINET REMOVAL



### 2.2. PANEL REMOVAL



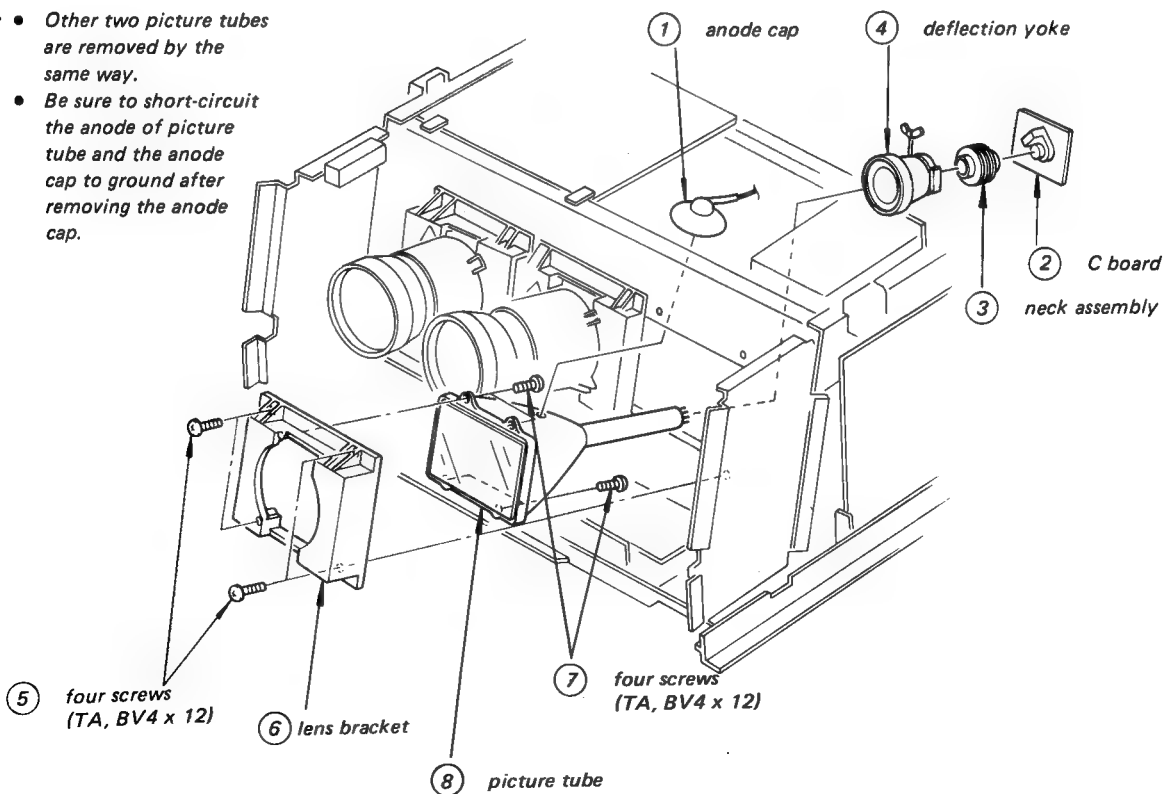
## 2-3. LENS REMOVAL



## 2-4. PICTURE TUBE REMOVAL

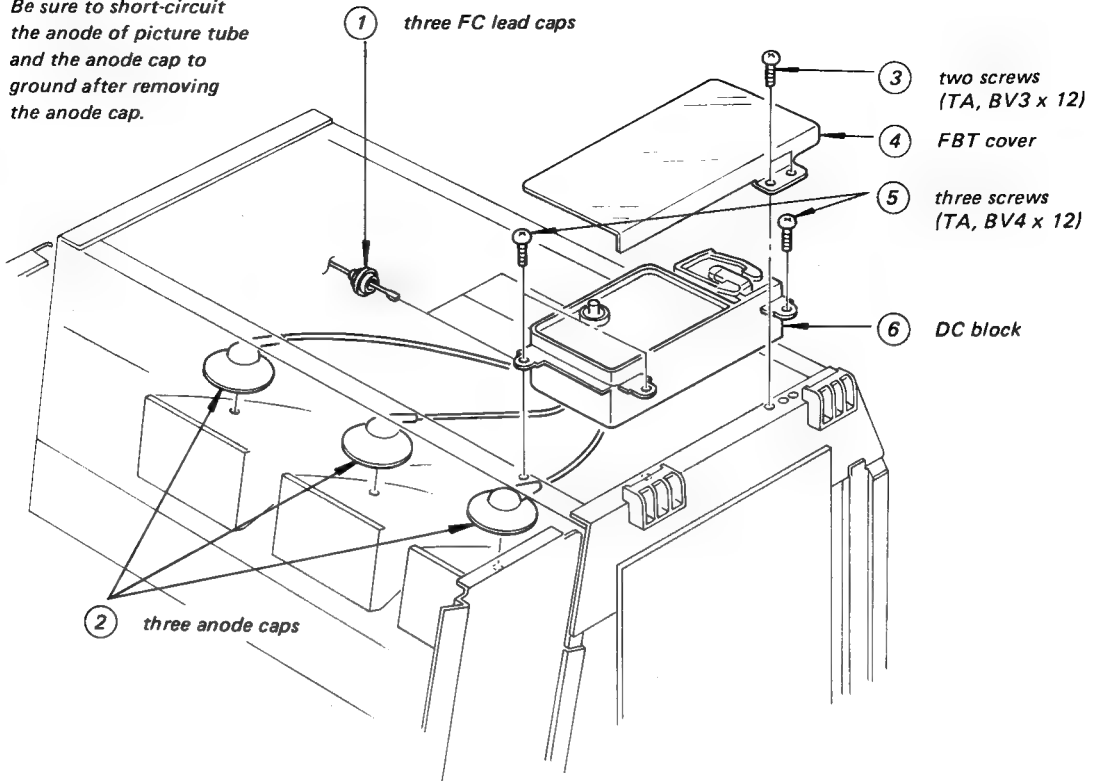
Note: • Other two picture tubes are removed by the same way.

- Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

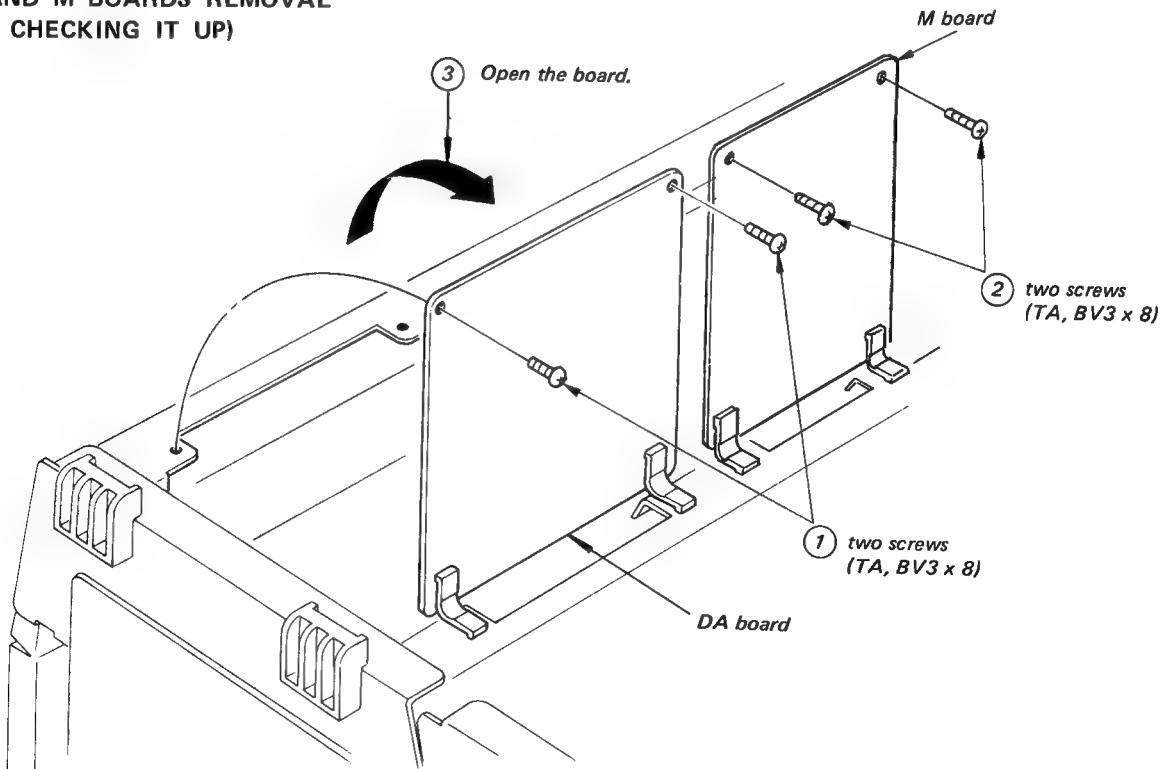


## 2-5. DC BLOCK REMOVAL

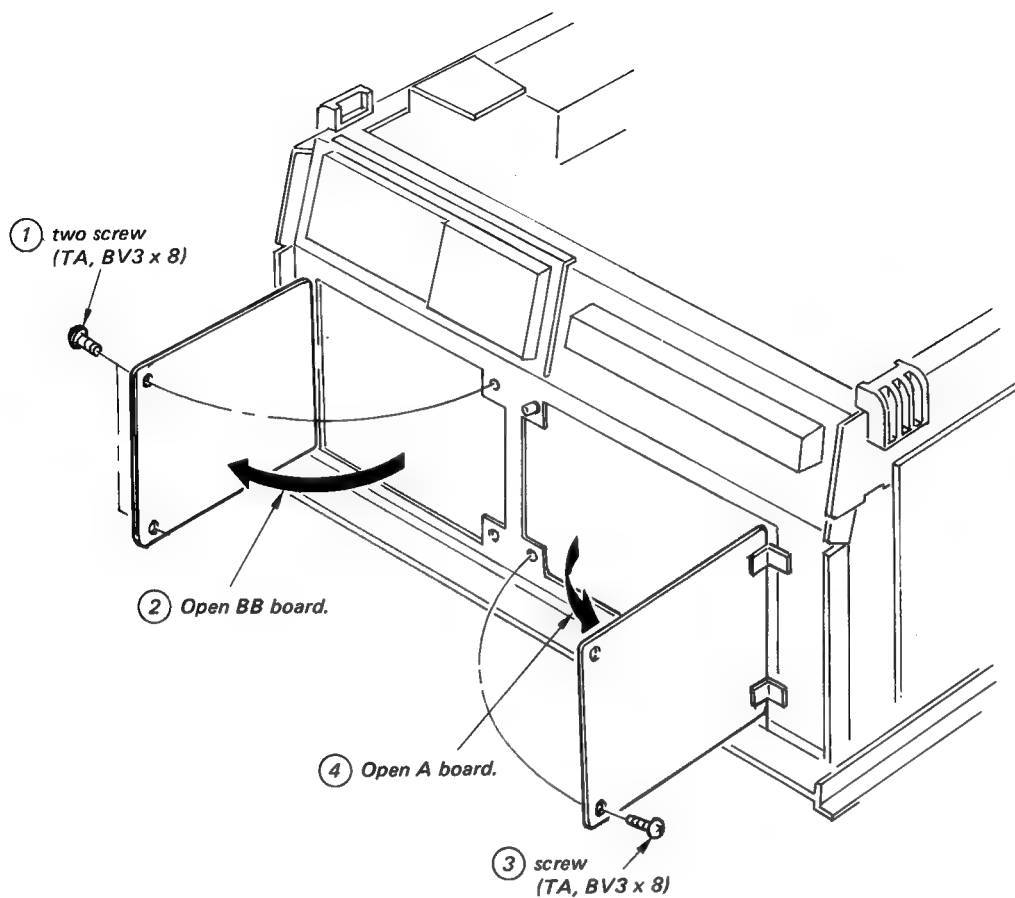
*Note: Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.*



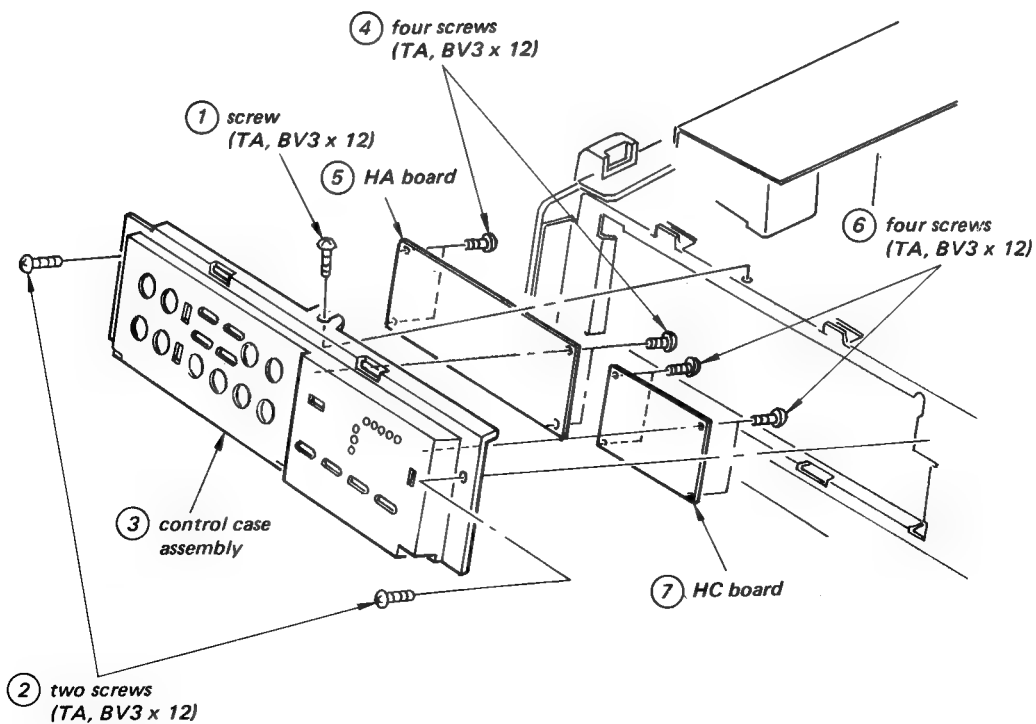
## 2-6. DA AND M BOARDS REMOVAL (FOR CHECKING IT UP)



## 2-7. BB AND A BOARDS REMOVAL

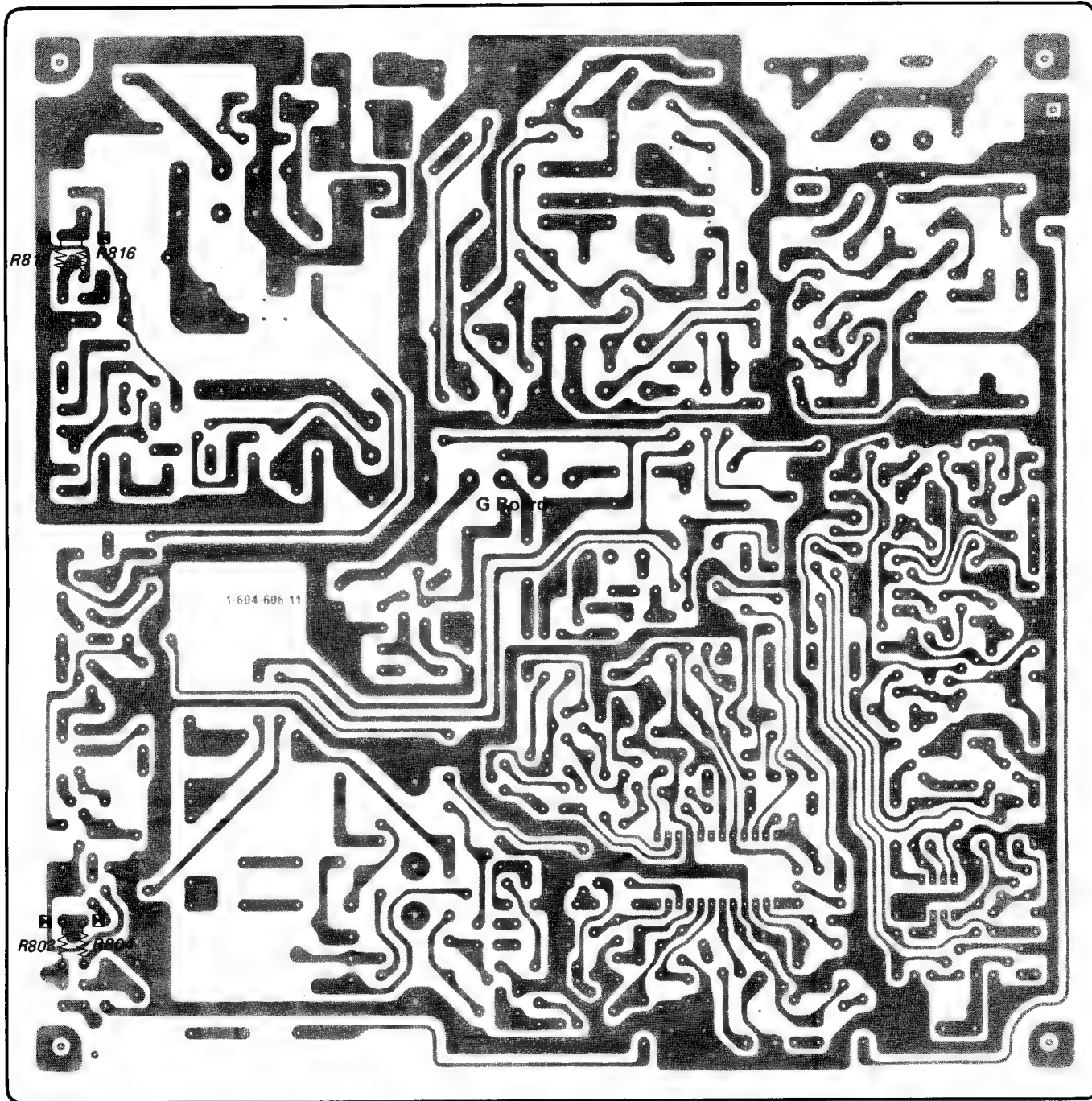


## 2-8. HA AND HC BOARD REMOVAL



## SECTION 3 CIRCUIT ADJUSTMENTS

### 3-1. G BOARD ADJUSTMENTS



When replacing the following components, make the HV HOLD DOWN and HV REG adjustments.  
G board, DC block

R904 .....in DC block  
IC501, Q801, Q802, Q803, D502,  
D801, D802, D803, R537, R802, R803, ...in G board  
R804, R809, R825, C806, C807, T801

When replacing the following components, make the HV REG adjustment.

R905 .....in DC block  
Q806, Q807, Q808, D807, D808,  
D809, D810, R814, R815, R816, ..... in G board  
R826  
Q904 ..... chassis

#### — Electrostatic Voltmeter Method —

##### HV HOLD DOWN Adjustment

(☒ R803 and R804)

- (1) Confirm that the POWER switch is OFF position.
- (2) Connect the positive lead of the electrostatic voltmeter to the anode of the picture tube and the negative lead to the ground lug on the chassis as shown in Fig. 2-1.

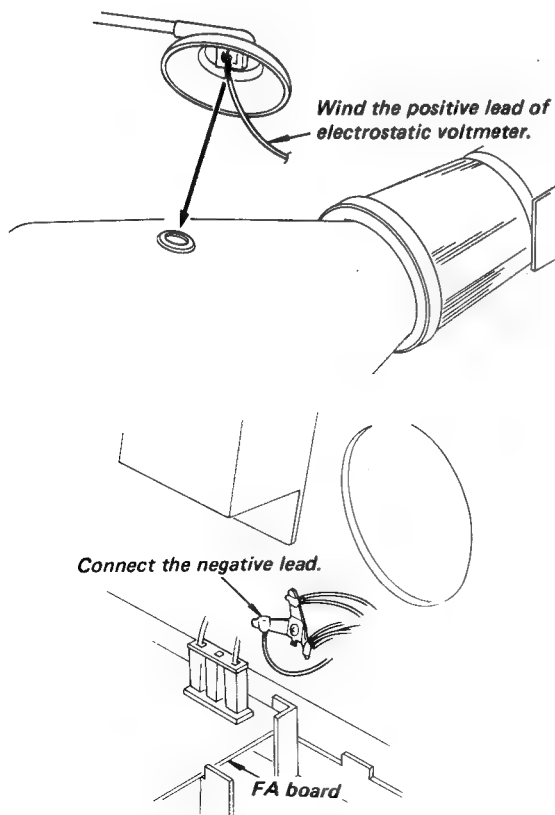


Fig. 2-1

- (3) Feed in a white pattern from a color-bar/pattern generator. Turn the BRIGHT control fully counterclockwise and press the PICTURE — button for 10 seconds. (Be sure to synchronize the picture).
- (4) Turn the POWER switch to ON and confirm that the power is automatically turned off just when the voltage on the electrostatic voltmeter is  $28.2\text{kV} \pm 250\text{V}$  by connecting a resistor across R815 and R816. (HV HOLD DOWN circuit operates).
- (5) If necessary, select R803 ( $\frac{1}{4}\text{W}$ , carbon) and R804 ( $\frac{1}{4}\text{W}$ , carbon) and repeat above steps.
- (6) Turn the POWER switch to OFF.
- (7) Disconnect the resistor.
- (8) Perform the HV REG adjustment from step 4.

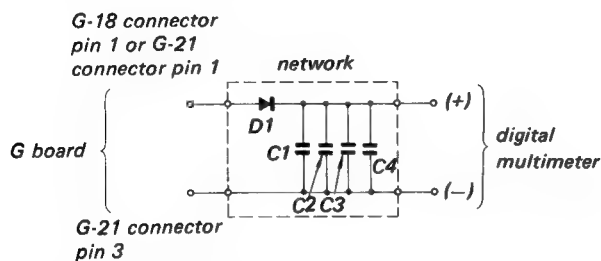
##### HV REG Adjustment (☒ R815 and R816)

- (1) Confirm that the POWER switch is OFF position.
- (2) Connect the positive lead of the electrostatic voltmeter to the anode of the picture tube and the negative lead to the ground lug on the chassis as shown in Fig. 4-1.
- (3) Feed in a white pattern from a color-bar/pattern generator. Turn the BRIGHT control fully counterclockwise and press the PICTURE — button for 10 seconds. (Be sure to synchronize the picture).
- (4) Turn the POWER switch to ON and confirm that the voltage on the electrostatic voltmeter is  $26.0\text{kV} \pm 300\text{V}$ .
- (5) If necessary, select R815 ( $\frac{1}{4}\text{W}$ , carbon) and R816 ( $\frac{1}{4}\text{W}$ , carbon) and repeat above steps.
- (6) Turn the POWER switch to OFF and disconnect the positive and negative leads of the electrostatic voltmeter.

— Digital Multimeter Method —

**HV HOLD DOWN Adjustment**  
( $\boxtimes$  R803 and R804)

- (1) Confirm that the POWER switch is OFF position.
- (2) Make the following network and connect a digital multimeter as shown in Fig. 2-2.



Diode (D1): V-11N (8-719-901-19)

Capacitors (C1–C4): 16,000pF/1.5kV polyethylene  
(1-129-924-00)

Digital multimeter: Capable of measuring the voltages  
is more than 1,100V.

*Fig. 2-2*

- (3) Feed in a white pattern from a color-bar/pattern generator. Turn the BRIGHT control fully counterclockwise and press the PICTURE – button for 10 seconds. (Be sure to synchronize the picture).
- (4) Turn the POWER switch to ON and confirm that the power is automatically turned off just when the voltage on the digital multimeter is 995V  $\pm$ 5V dc by connecting a resistor across R815 and R816.  
(HV HOLD DOWN circuit operates).
- (5) If necessary, select R803 and R804 ( $\frac{1}{4}$ W carbon resistor) and repeat above steps.
- (6) Turn the POWER switch to OFF.
- (7) Disconnect the resistor.
- (8) Perform the HV REG adjustment from step 4.

**HV REG Adjustment ( $\boxtimes$  R803 and R804)**

- (1) Confirm that the POWER switch is OFF position.
- (2) Make the following network and connect a digital multimeter as shown in Fig. 2-2.
- (3) Feed in a white pattern from a color-bar/pattern generator. Turn the BRIGHT control fully counterclockwise and press the PICTURE – button for 10 seconds. (Be sure to synchronize the picture).
- (4) Turn the POWER switch to ON and confirm that the voltage on the digital multimeter is 930V  $\pm$ 6V dc.
- (5) If necessary, select R815 and R816 ( $\frac{1}{4}$ W carbon resistor) and repeat above steps.
- (6) Turn the POWER switch to OFF and disconnect the network and the digital multimeter.

SECTION 4  
DIAGRAMS

4-1. MOUNTING DIAGRAM  
— Conductor Side —

[R. G. B OUT] **C** [AUDIO OUT] **K**

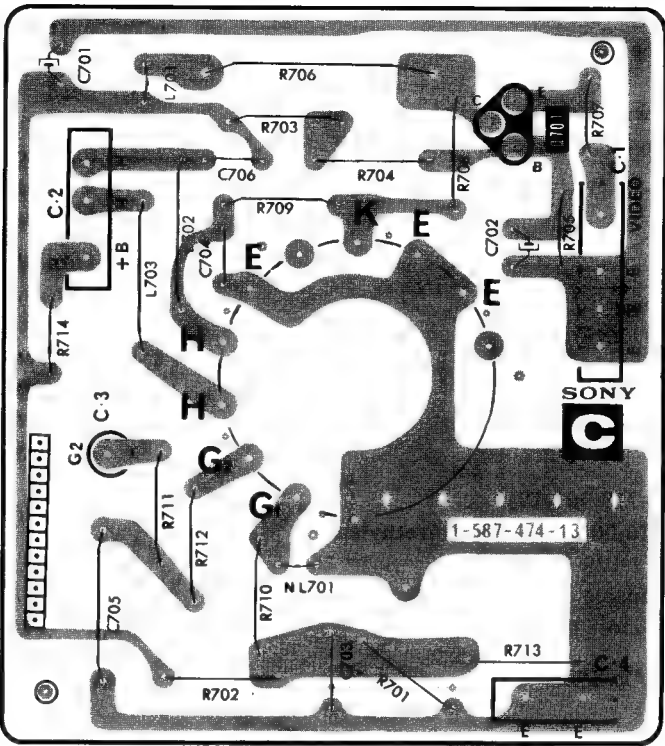
A

B

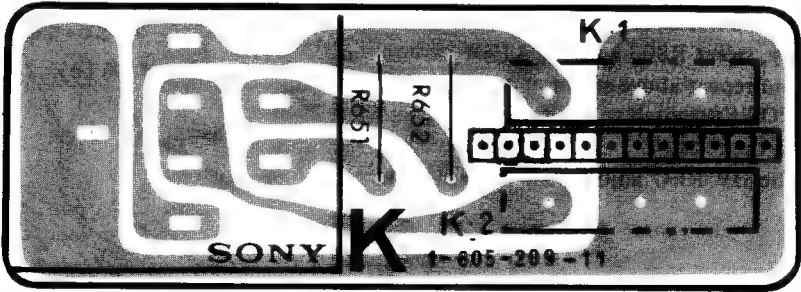
C

D

— C Board —



— K Board —







**HC**

[VOL/PROGR SW]

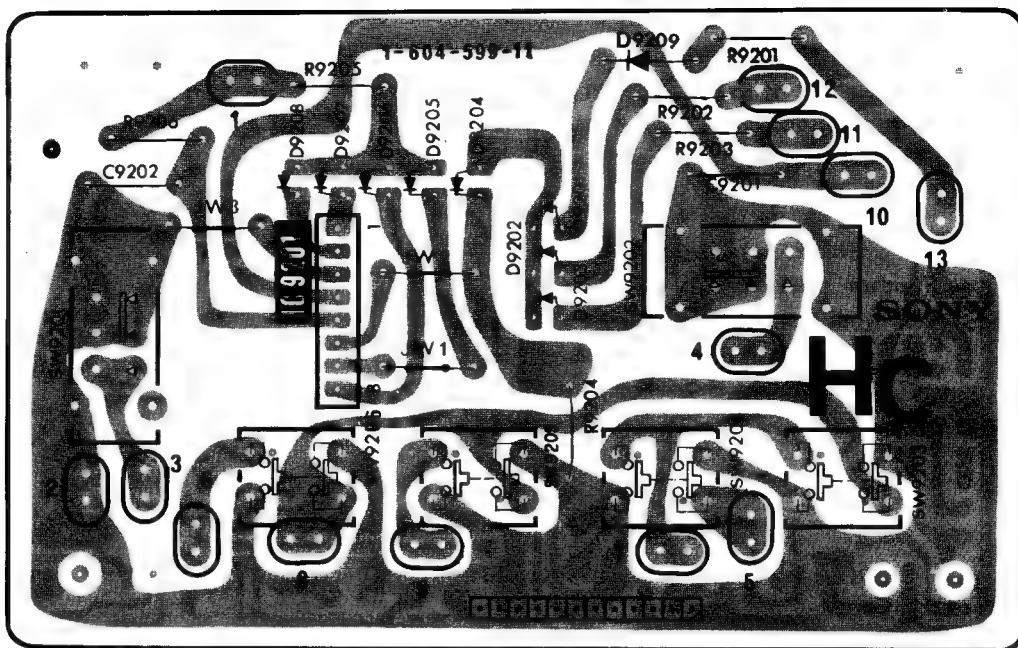
**HF**

I

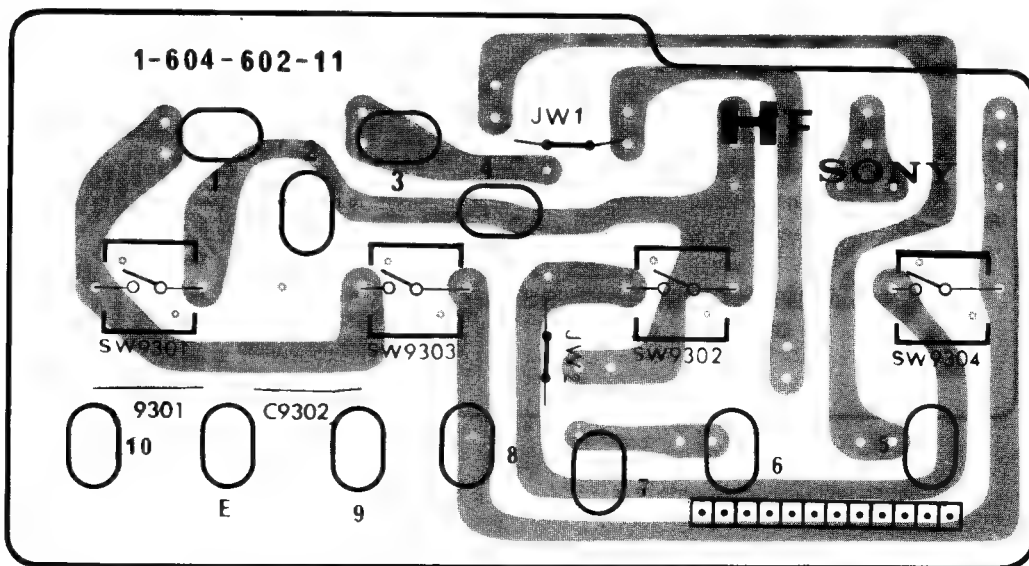
J

K

— HC Board —

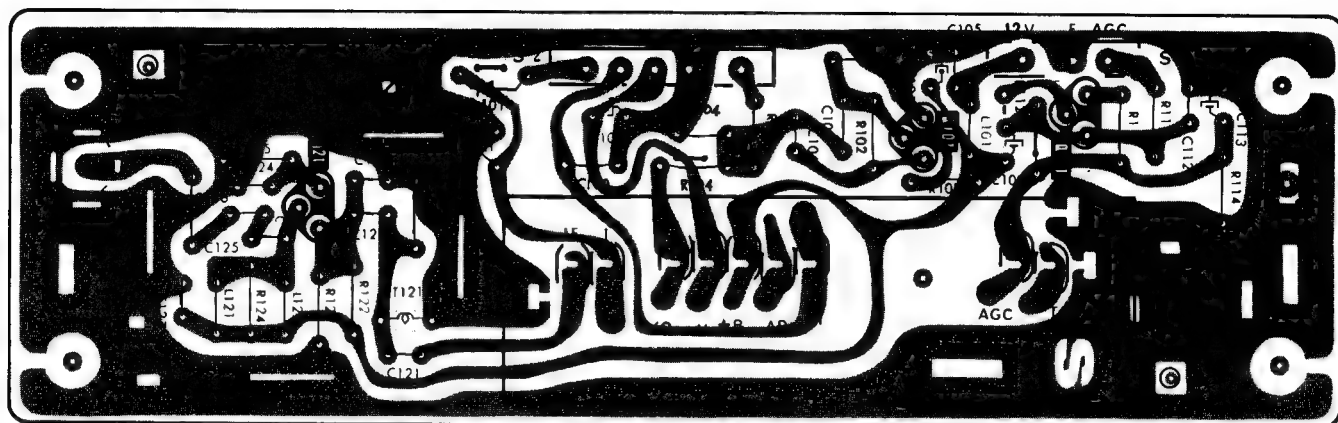


— HF Board —

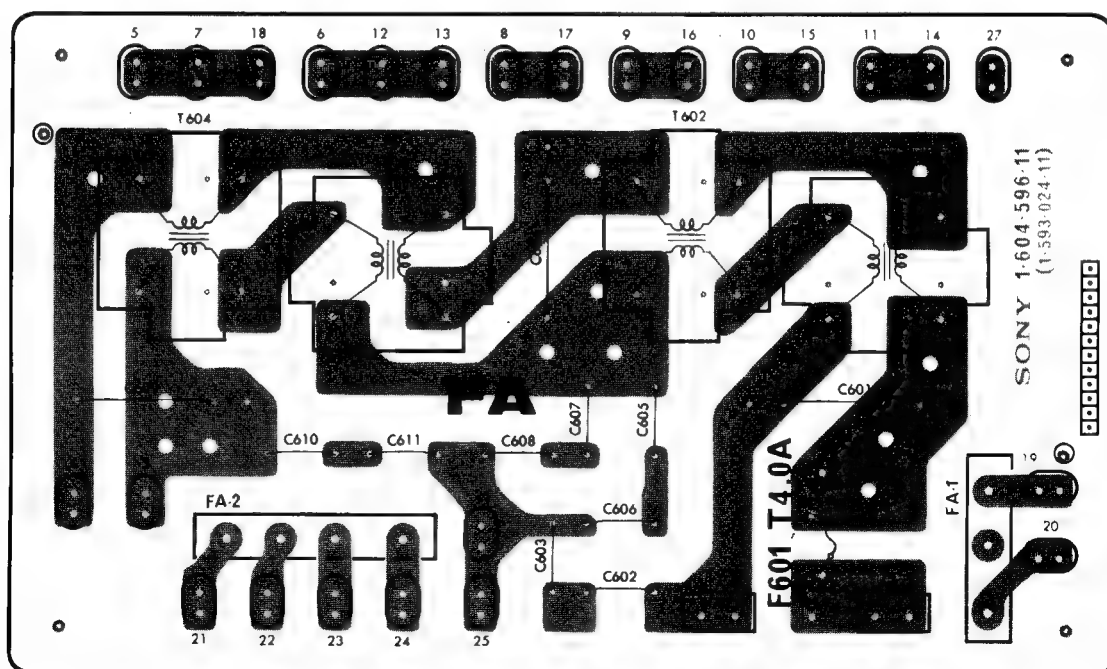


D

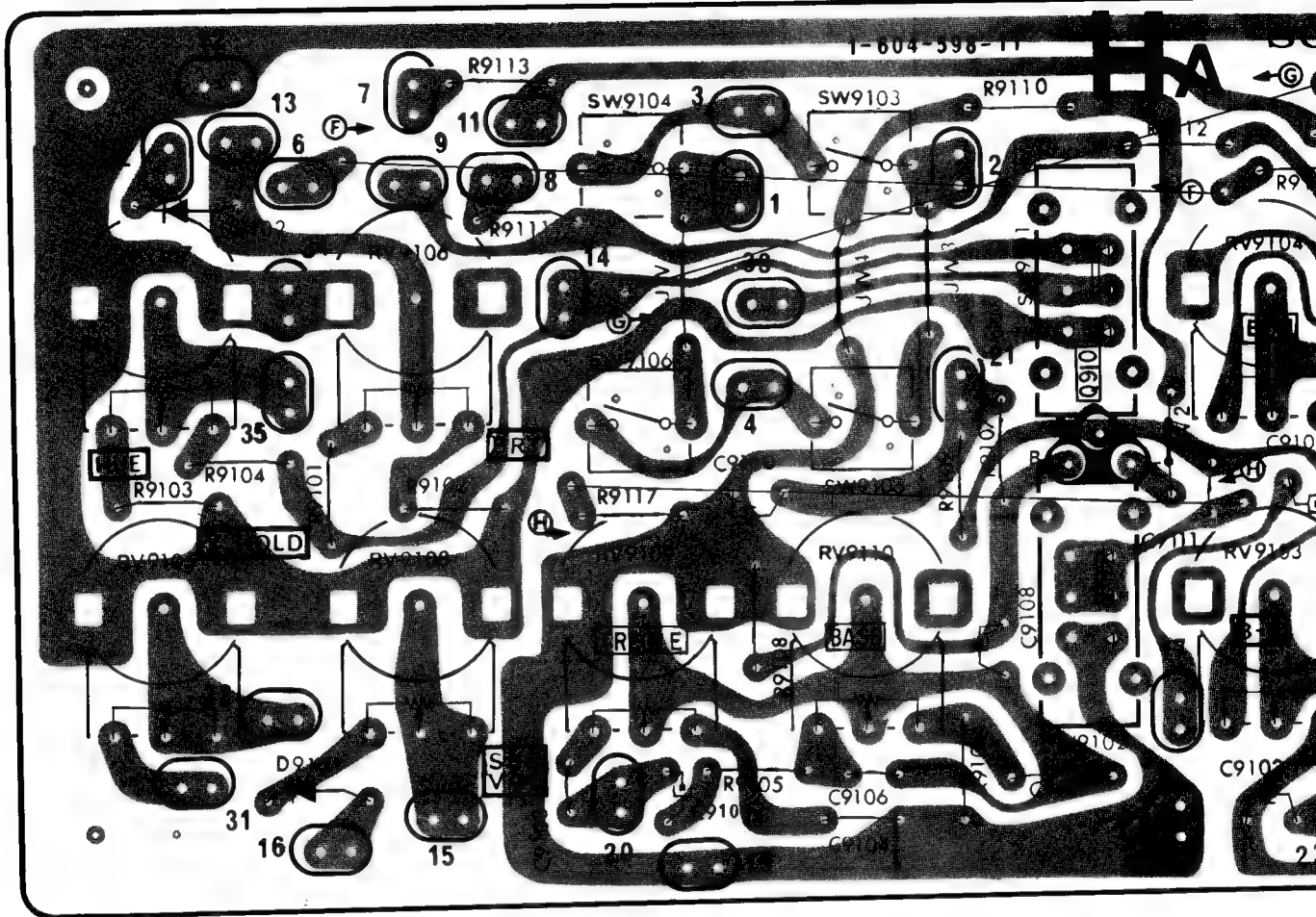
— S Board —



— FA Board —



– HA Board –



HA

HA

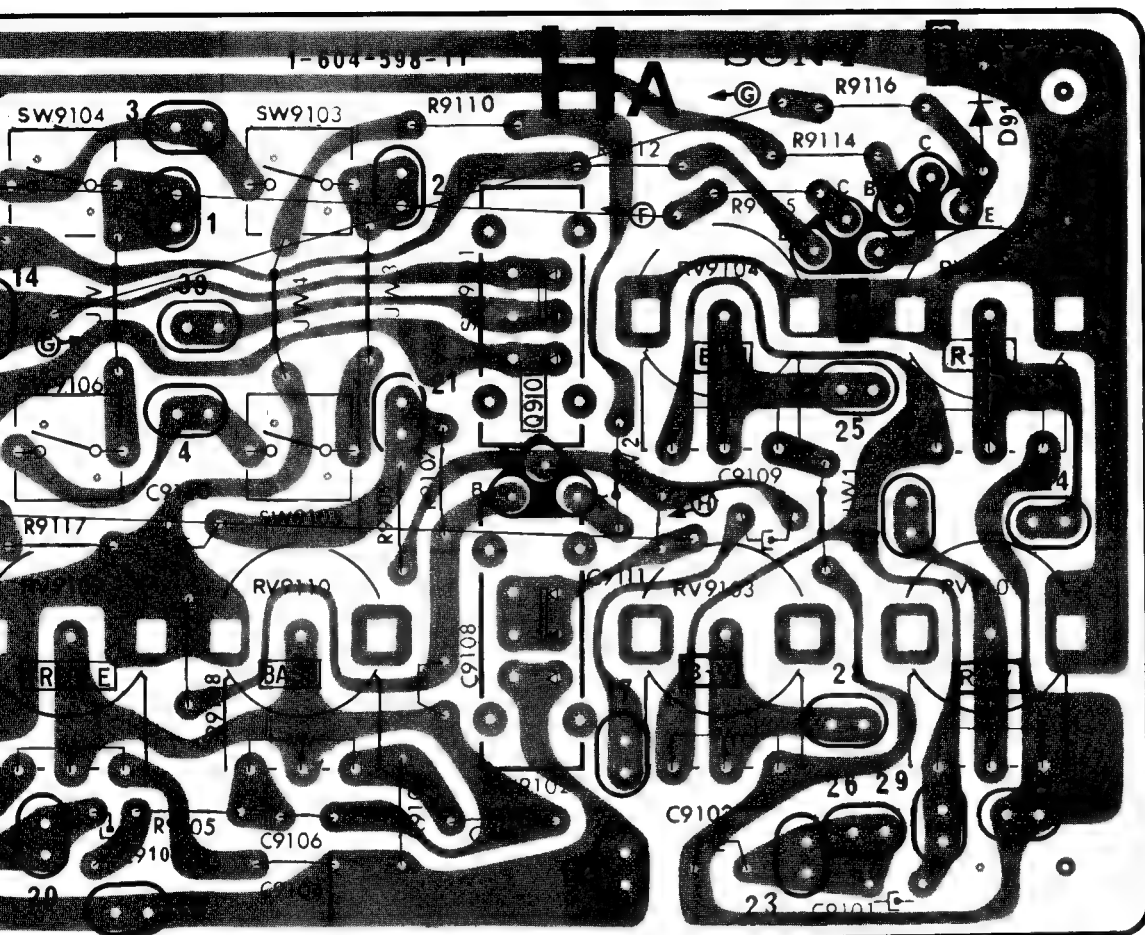
[CUSTOMER CONTROL]

D

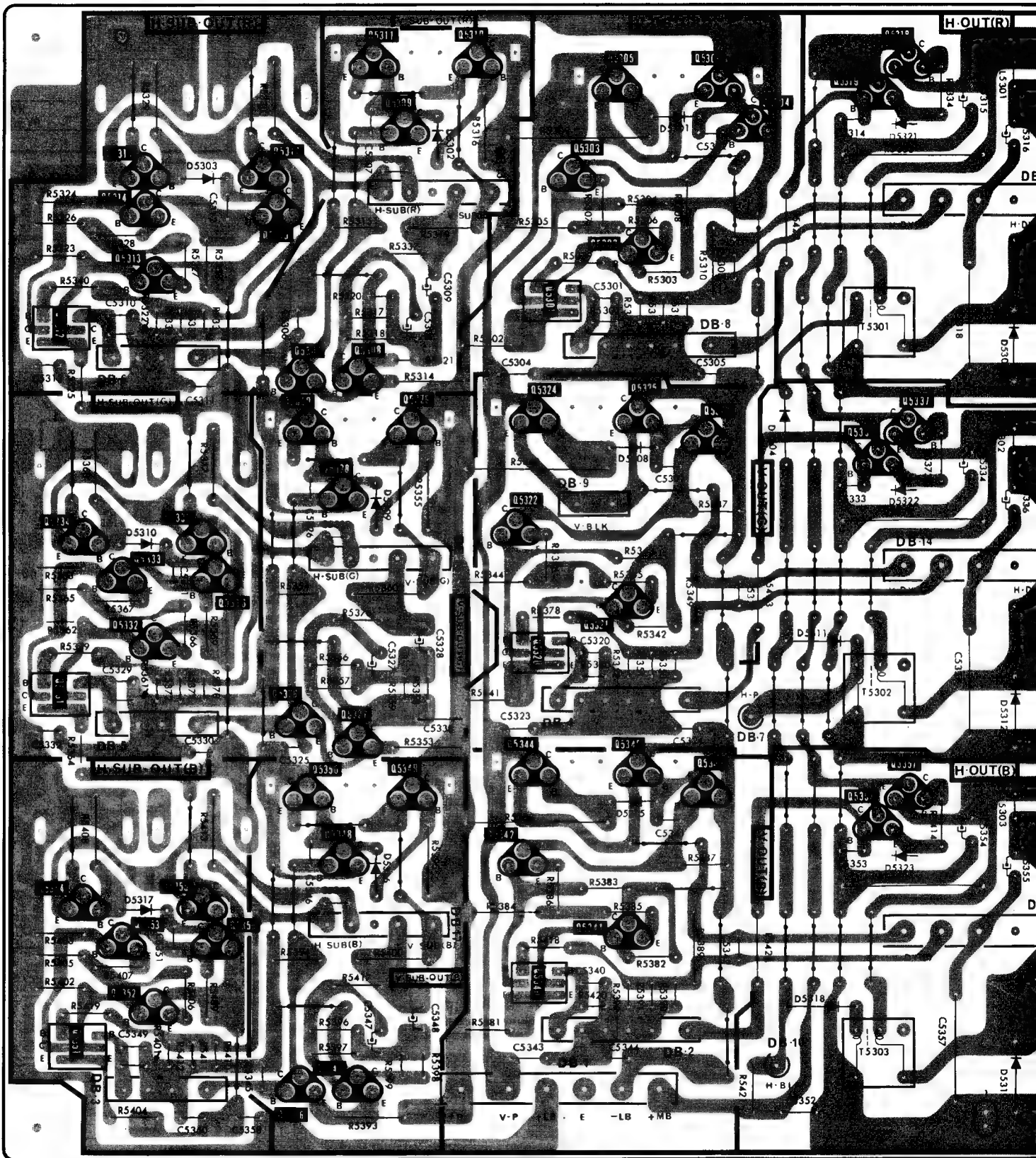
E

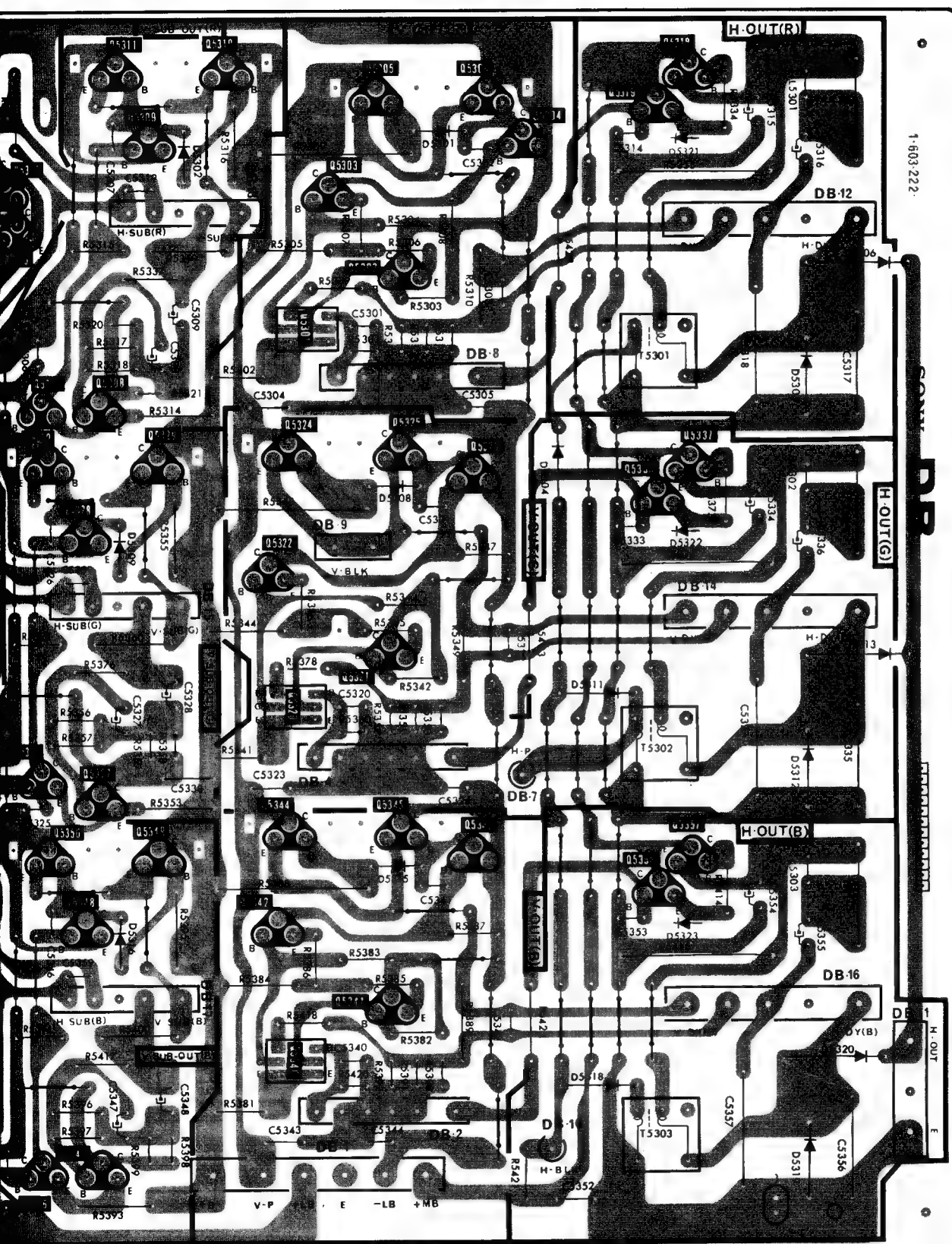
F

G









D	Q, IC
	5311, 5310 5318
	5305, 5306, 5319
5301	5309 5304
5302 5322	
5303	5316, 5317 5303
	5314 5315
5306	5313 5302
	5312 5301
5305	
	5307, 5308
5304	5330, 5329, 5324, 5325
5308	5323 5337
	5338
5309 5322	5328
5310	
	5334, 5335, 5332
	5333, 5336
	5321
5313	
5311	5332
	5320
	5331
5312	5326
	5327
	5344, 5345
5315	5350, 5349, 5343, 535
	5358
	5323
5316	
5317	5348, 5342
	5354, 5355
	5353, 5356 5341
5320	
5318	5352 5340
	5351
5319	
	5346, 5347
D	Q, IC



# B

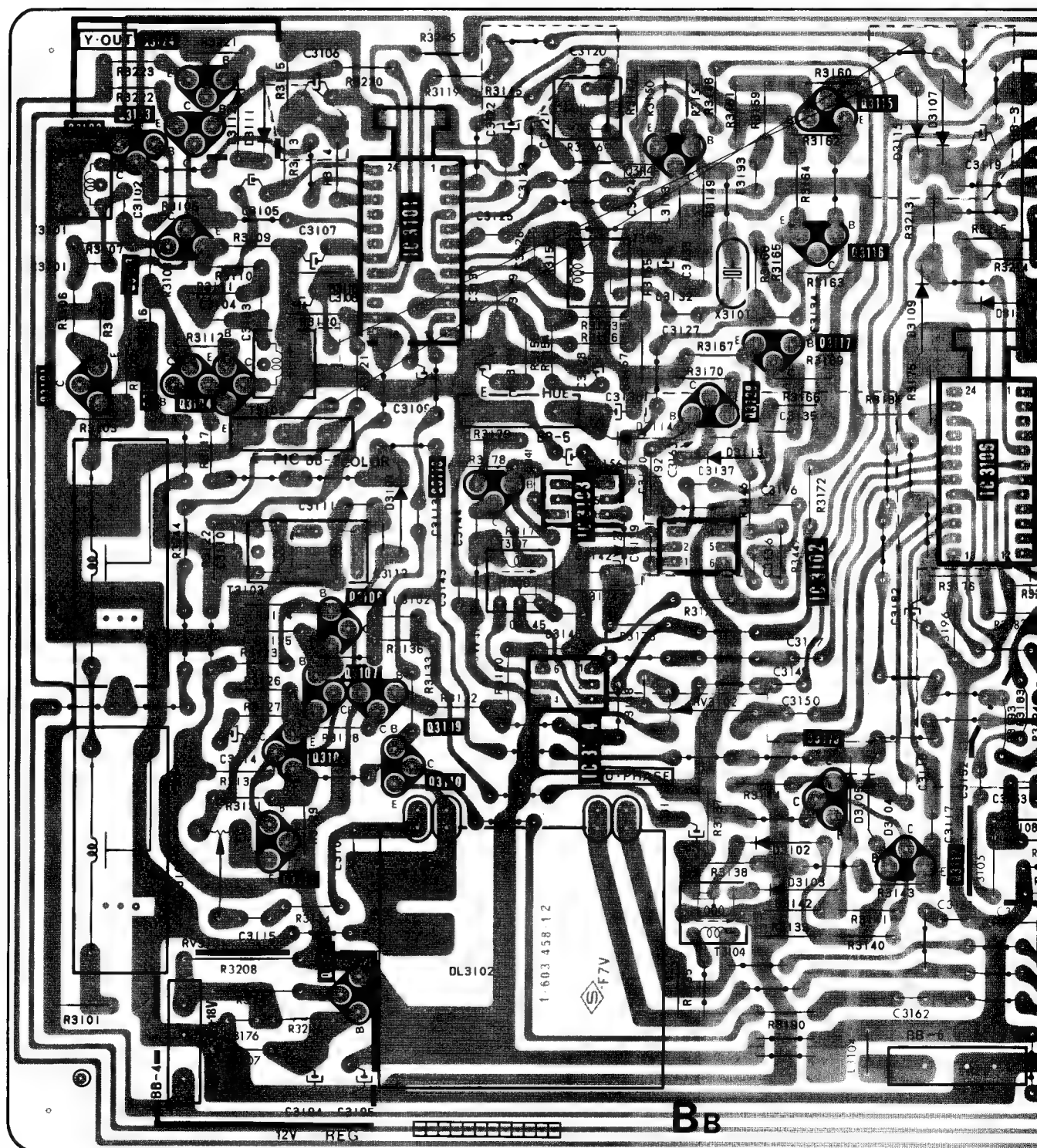
**C**

D

# E

### B Board –

Q <sub>i</sub>	3102	3123,3124	IC3101	3114	3115	
IC	3101	3103 3105 3104	3118	3128 IC3102	3117 3116	IC3106
		3111 3108 3107 3109 3110	IC3103 IC3104		3113	3112
D		3112 3111 3129 3101		3114 3113	3115 3109 3107 3110	3102,3103 3105 3104
ADJ		RV3101		RV3102		

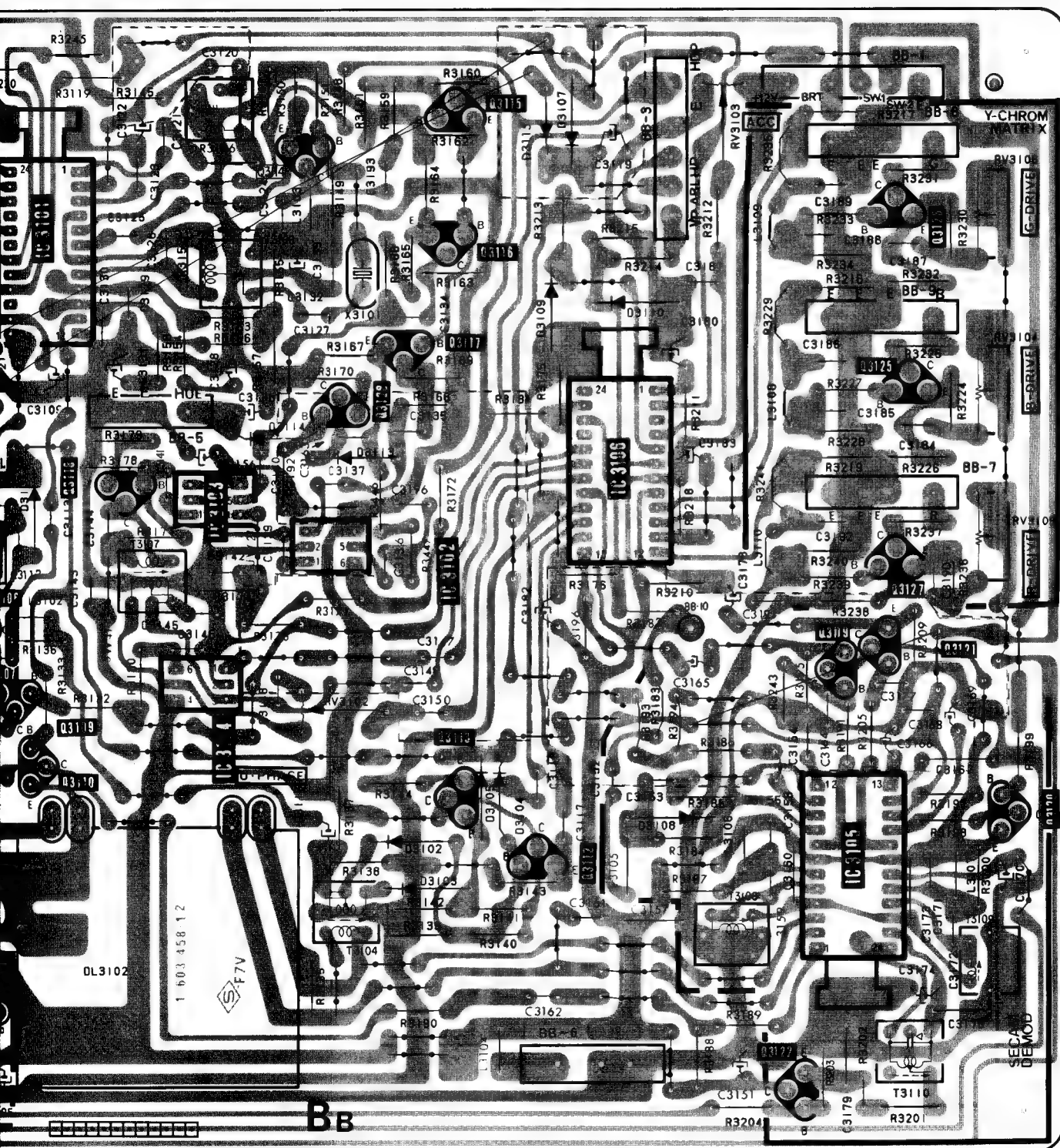


D

# E

F

**G**

[illegible]

A

B

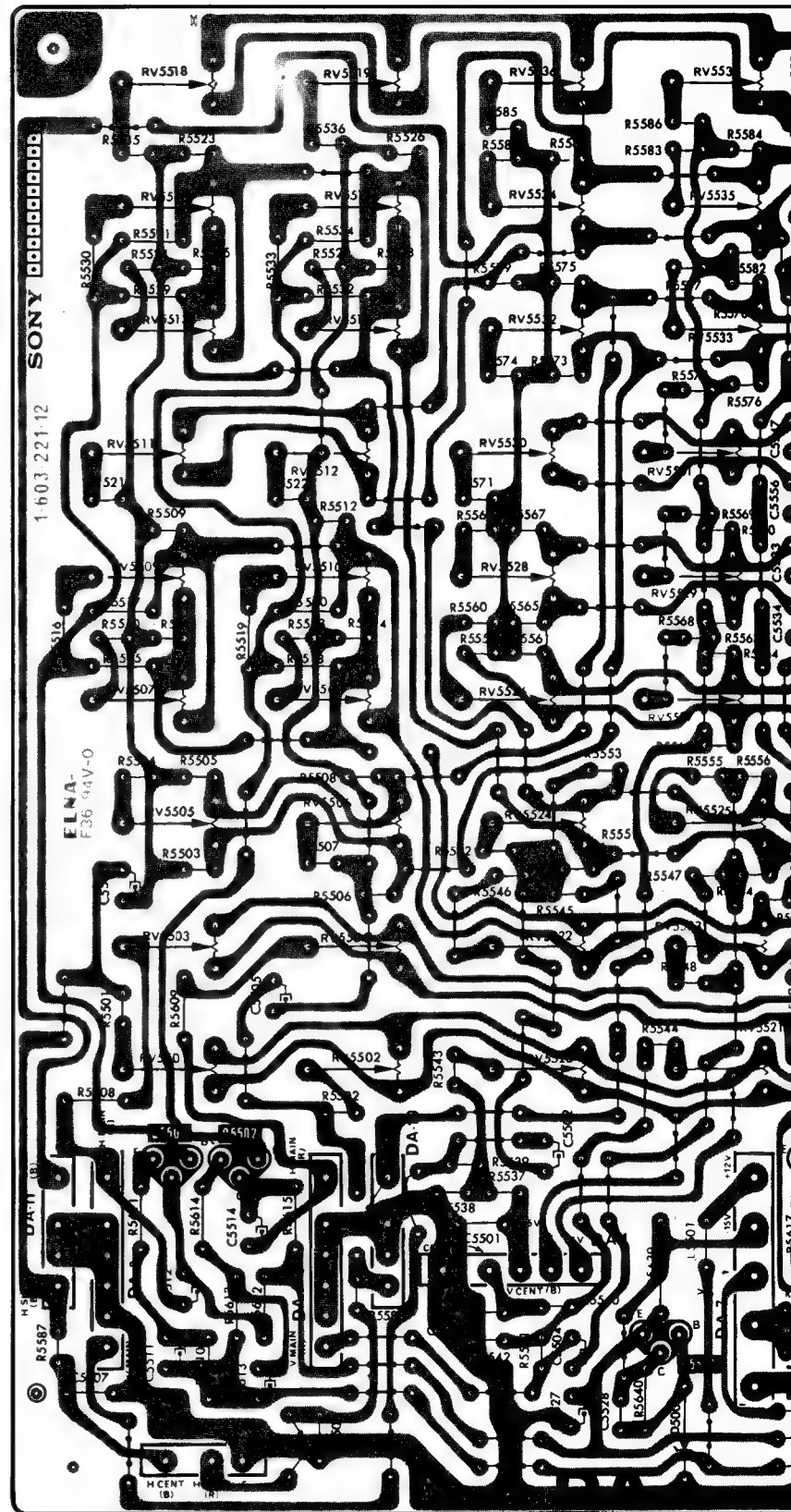
C

D

E

— DA Board —

Q, IC	D	ADJ
5526		RV5518, RV5536 RV5544
5528		RV5519 RV5537
5527, 5529		
553		
5512		RV5516, RV5534
5515		RV5517 RV5535
5514, 5536		
5535		
5537		RV5513, RV5532
5539		RV5514 RV5533
5538		
5531		
5533		RV5511, RV5530
5530		RV5512 RV5531
5534		
5532		
5520		
5516		RV5509, RV5528
5518		RV5510 RV5529
5517		
5519		RV5507, RV5526, RV5541
5521		RV5508 RV5527
5522		
5523		
5524		RV5505, RV5524
5525		RV5506 RV5525
		RV5543
		RV5503, RV5522, RV5538
		RV5504, RV5523, RV5539
		RV5501, RV5520, RV5542
		RV5502, RV5521, RV5540
5503		
5501		
5502	5509	
5508		
5504		
5507		
5505		
5510	5001	
5511		
5506		
	5002	
	5003	
Q, IC	D	ADJ





[H, V REG]

DA

DA

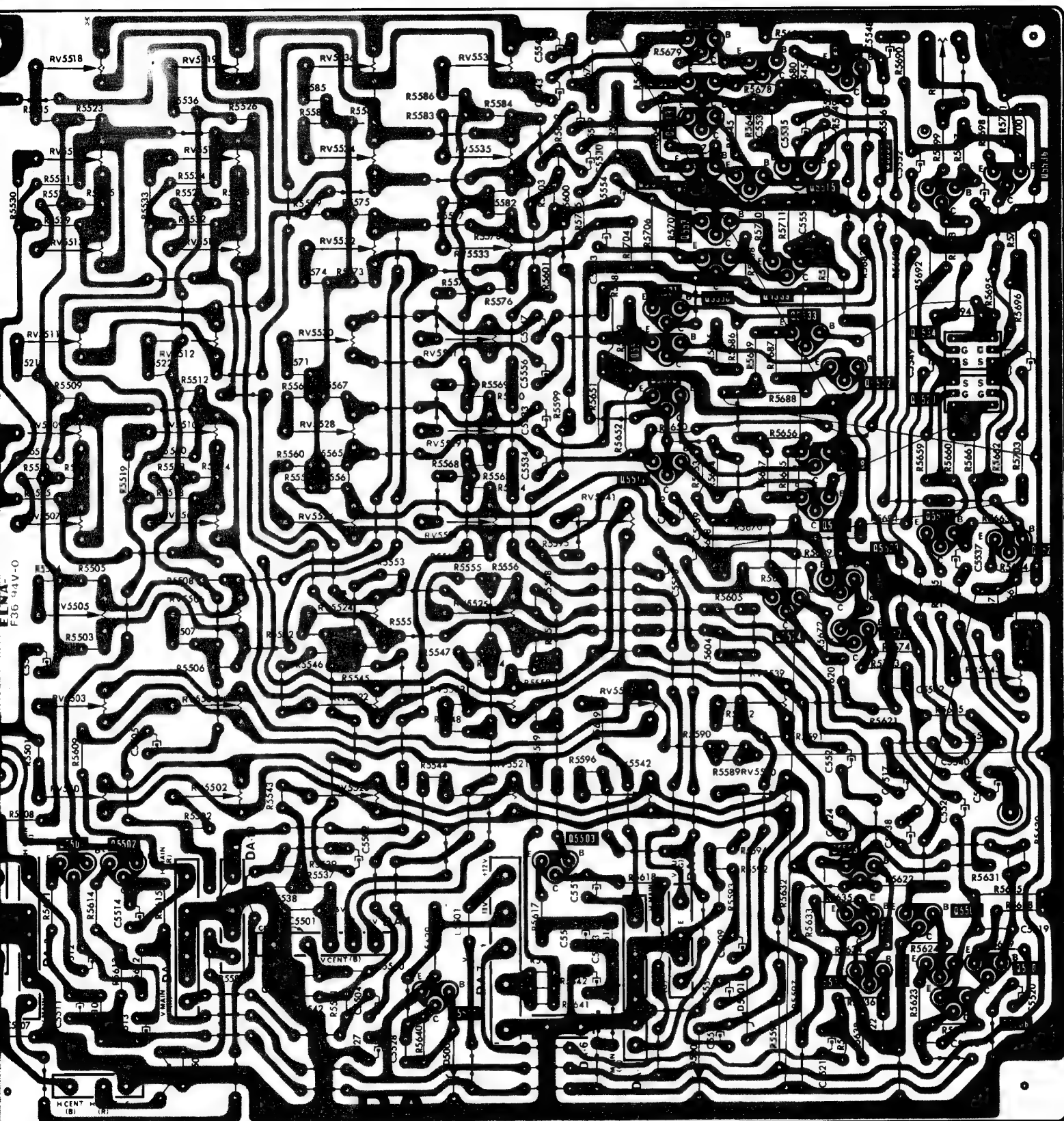
C

D

E

F

G



G

G

OSC, SYSTEM DET,  
REG, H/V OUT

B

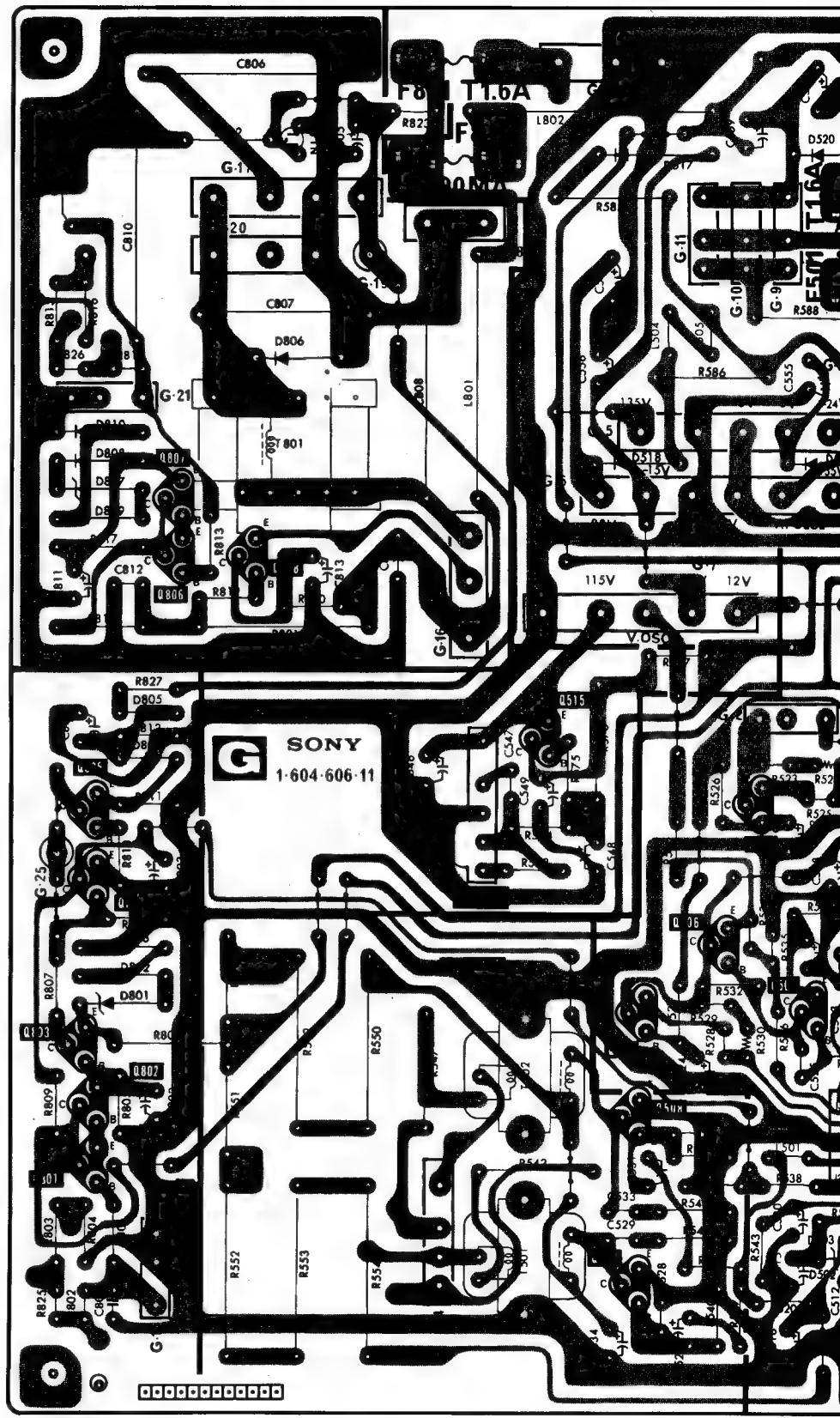
C

D

E

- G Board -

Q, IC	D	ADJ
	522	
	521	
	520	
	517	
	806	512
	511	
	510	
	516	514
	808, 518	513
807	807	
808	809	
806		
	519	
	523	
	524	
	521	
	520	
	522	
515	805	523
	804	
503		
517		
518		
805		
IC502		
804		
	502	
501		
506	803	
	802	
504, 505	801	
803	504	
802, 508		
	505	
	501	
801		
	506	
	503	
	502	
507		
	513	
	512	
		RV501
Q, IC	D	ADJ



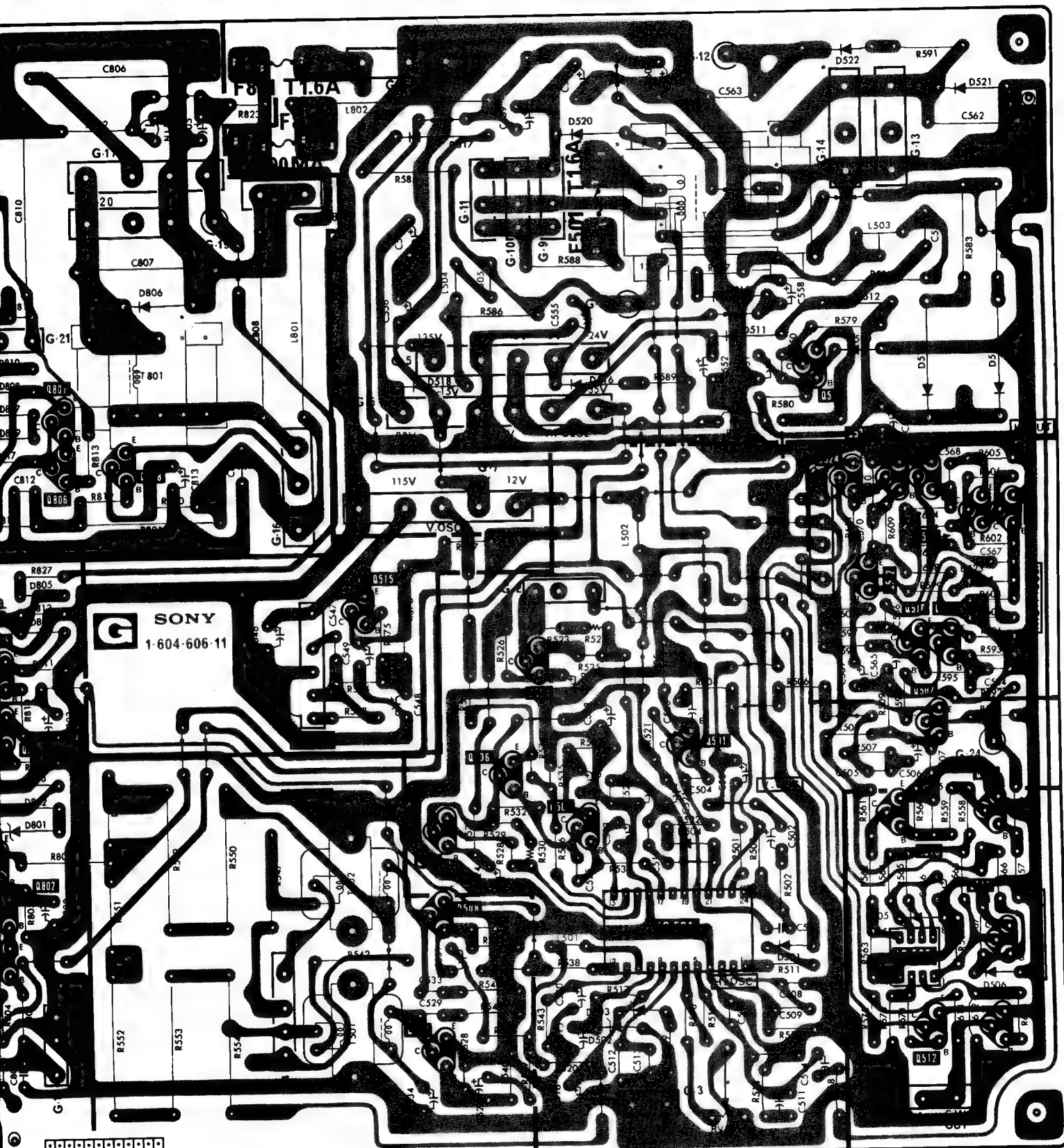
[OSC, SYSTEM DET,  
REG, H/V OUT]

D

# E

**F**

**G**



## E

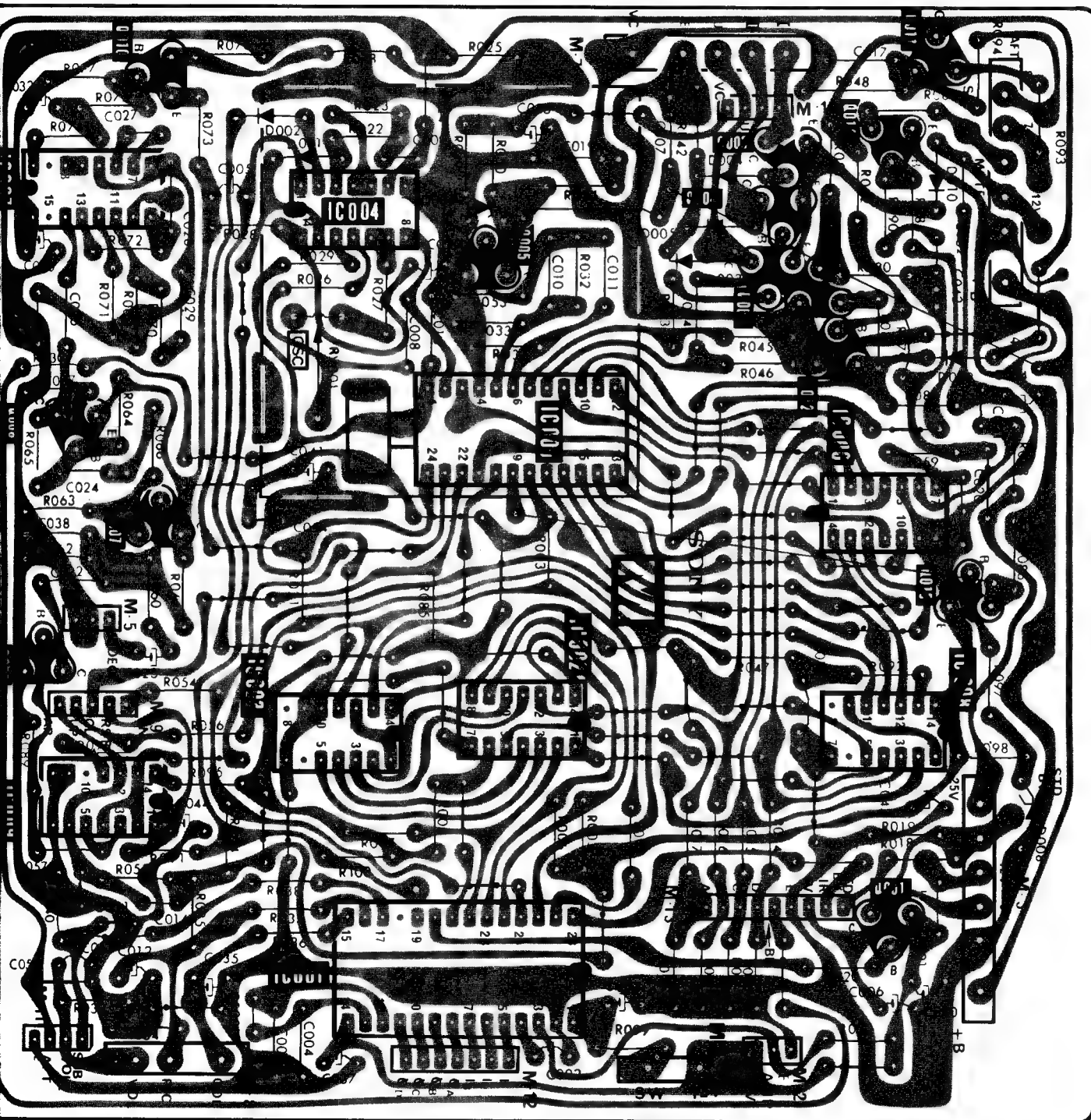
—39—



**M(1/2)**

F

IC007	010	IC004		003, 004	014	011	
006	008	007	005	002, 013, 012	IC006	015	
IC009		IC003	IC002		IC008	001	
			IC001				
	002	001	007	003	004	010	009
					005		008
		RV001					





A

A

VIF, SIF, AFT,  
AUDIO AMP, VIDEO SW,  
HATCH/BAR OUT

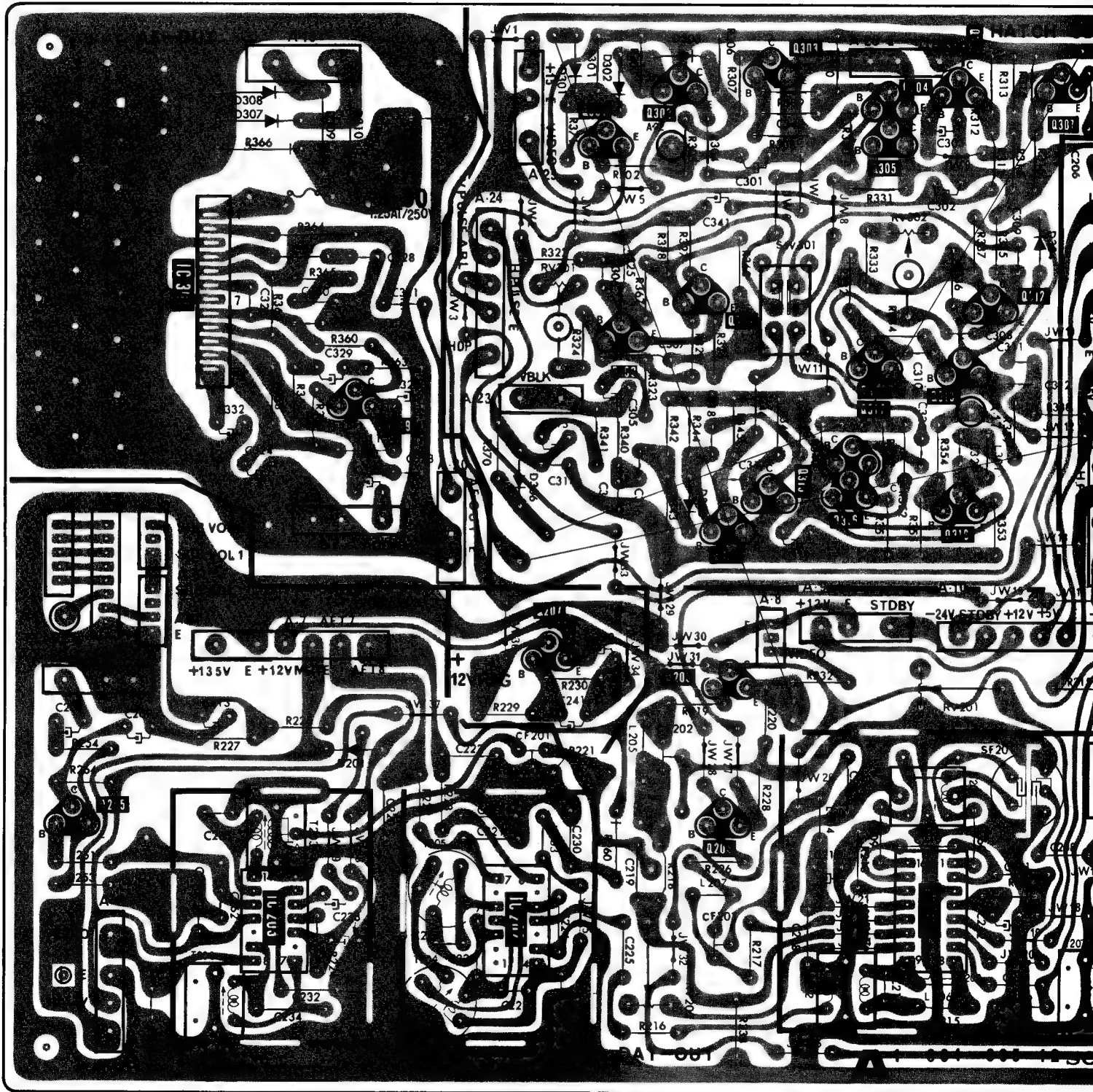
B

C

D

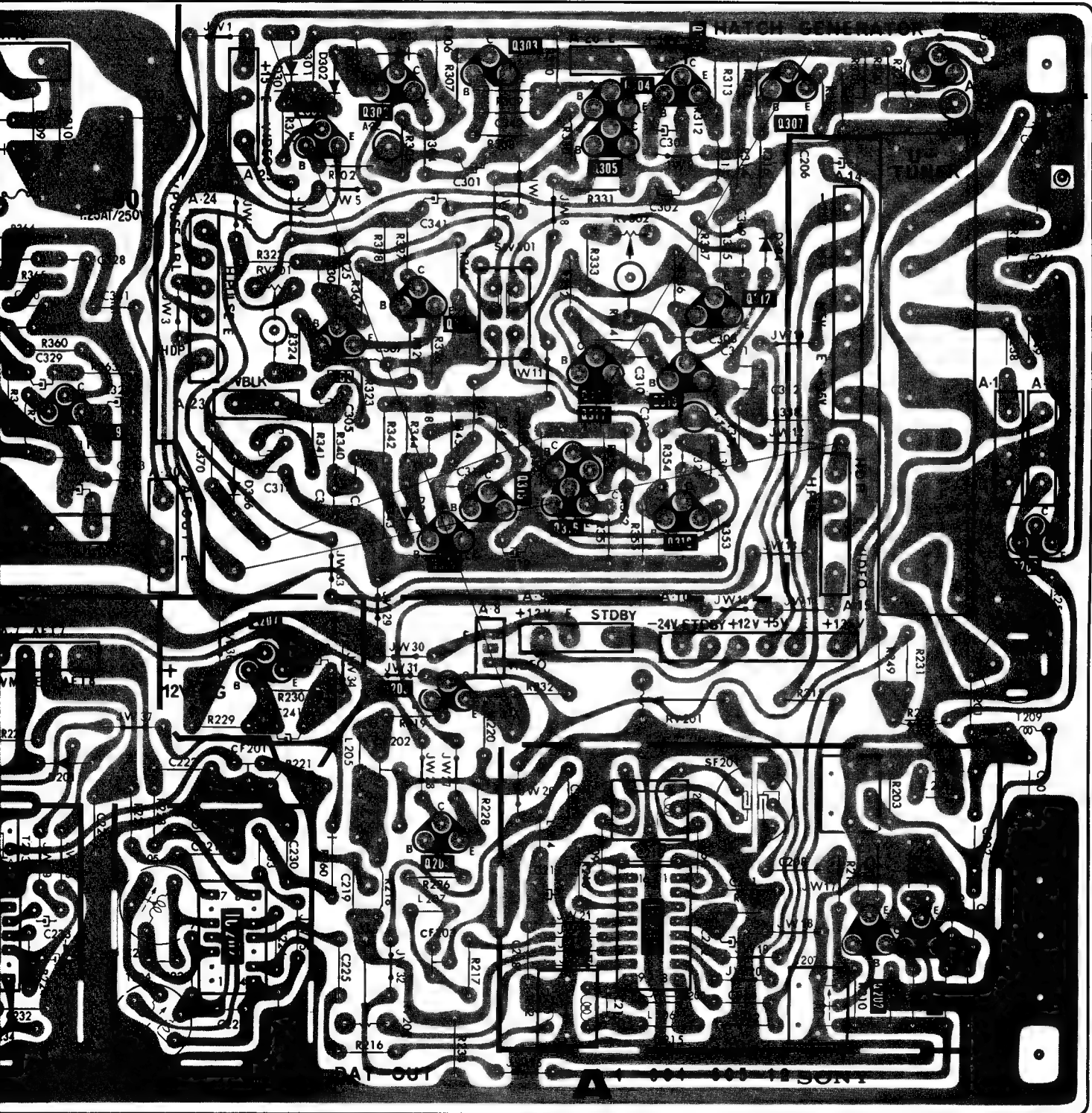
E

Q, IC	205	IC301	319	207	301	309	302	310	303	315	316,317	311	305	304	306	313	312	307
D		307	308	309	310	201	311	306	303	305		IC201						304
ADJ								RV301	RV202				RV302	RV201				








C
D
E
F
G


319	207	301 309	302 310	303 315	305 304 311	306 313 318	312	307	308	Q, IC
309 310 201 311	IC202	301 302	303 305	203 314 204	IC201	202	304			D
	RV301	RV202			RV302 RV201					ADJ







## 4.2. SCHEMATIC DIAGRAM (1/3)

### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. p :  $\mu\text{F}$  50WV or less are not indicated except for electrolytics.
- All resistors are in ohms,  $\frac{1}{4}\text{W}$  unless otherwise noted. k : 1000 $\Omega$ , M : 1000k $\Omega$
-  : nonflammable resistor.
- $\Delta$  : internal component.
-  : panel designation.
- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by  make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved.  
(Refer to HV HOLD DOWN and HV REG Adjustments on page 21 - 23).
- When replacing the part in below table, be sure to perform the related adjustment.

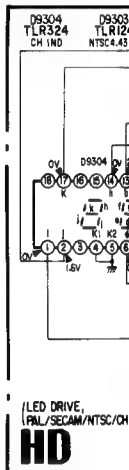
Part replaced (  )	Adjustment
G board, DC block R904, IC501, Q801, Q802, Q803, D502, D801, D802, D803, R537, R802, R803, R804, R809, R825, C806, C807, T801	HV HOLD DOWN ADJUSTMENT (R803/804) HV REG ADJUSTMENT (R815/816)
R905, Q806, Q807, Q808, D807, D808, D809, D810, R814, R815, R816, R826, Q904	HV REG ADJUSTMENT (R815/816)

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
-  : adjustment for repair.
- Readings are taken with PAL color-bar signal input.  
( ) : SECAM  
< > : NTSC4.43
- Voltage variations may be noted due to normal production tolerances.
-  : B+ bus.
-  : When this portion is touched with the probe of a VOM, the set will be turned off. (Q806 base and emitter on G board).

**Note:** The components identified by shading and mark  are critical for safety. Replace only with part number specified.



TO A BOARD  
(A-6)  
To Page 47



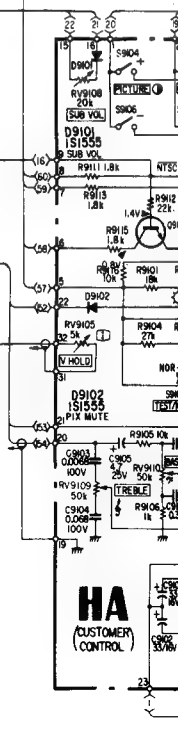
LED DRIVE,  
PAL/SECAM/NTSC/CH  
**HD**

TO A BOARD  
(A-5)  
To Page 47

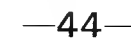
TO G BOARD  
(G-23)  
To Page 47

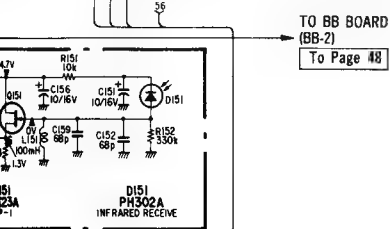
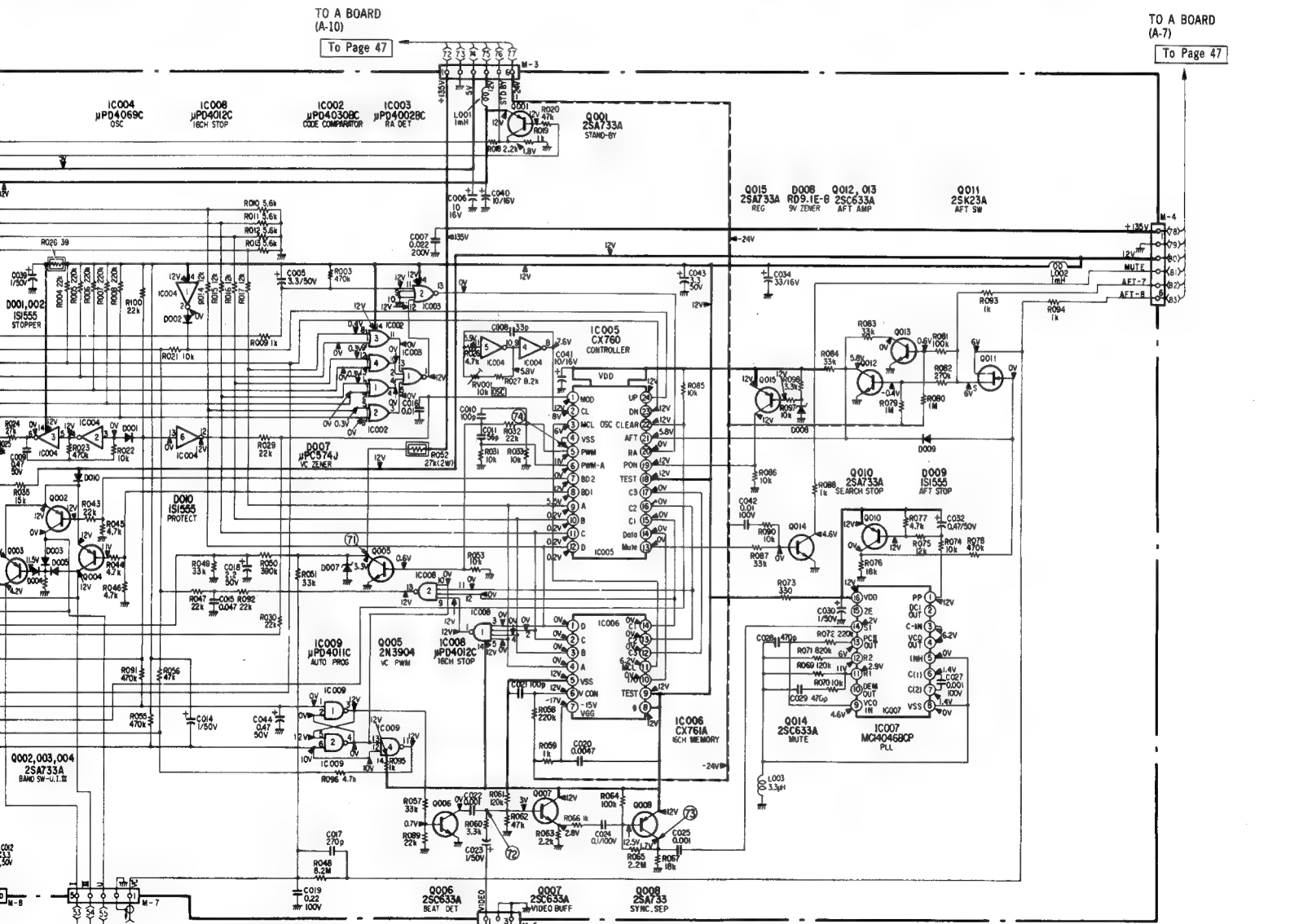
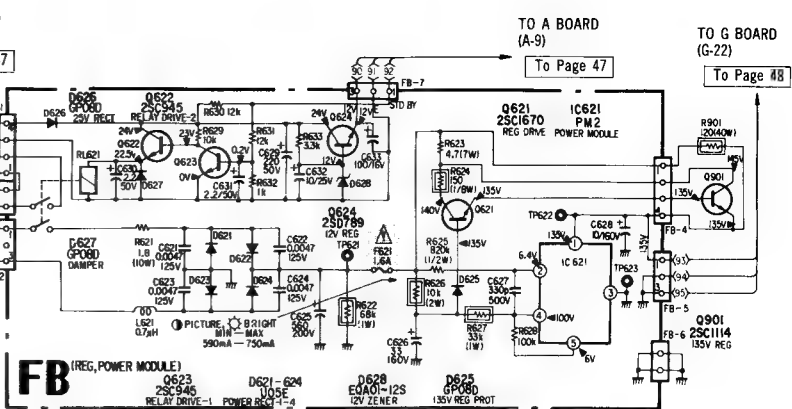
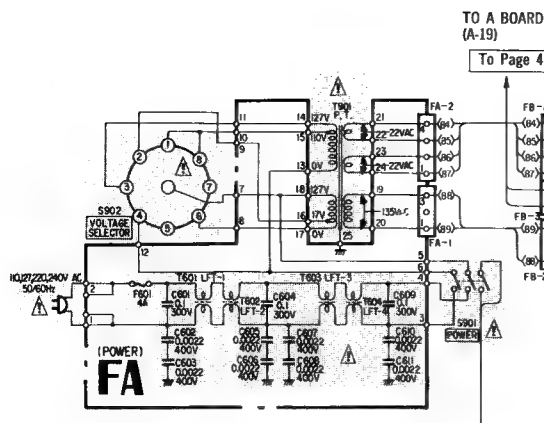
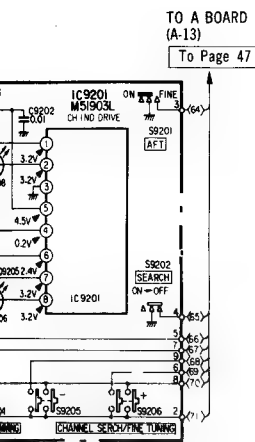
TO A BOARD  
(A-4)  
To Page 47

TO G BOARD  
(G-2)  
To Page 47



**HA**  
CUSTOMER  
CONTROL



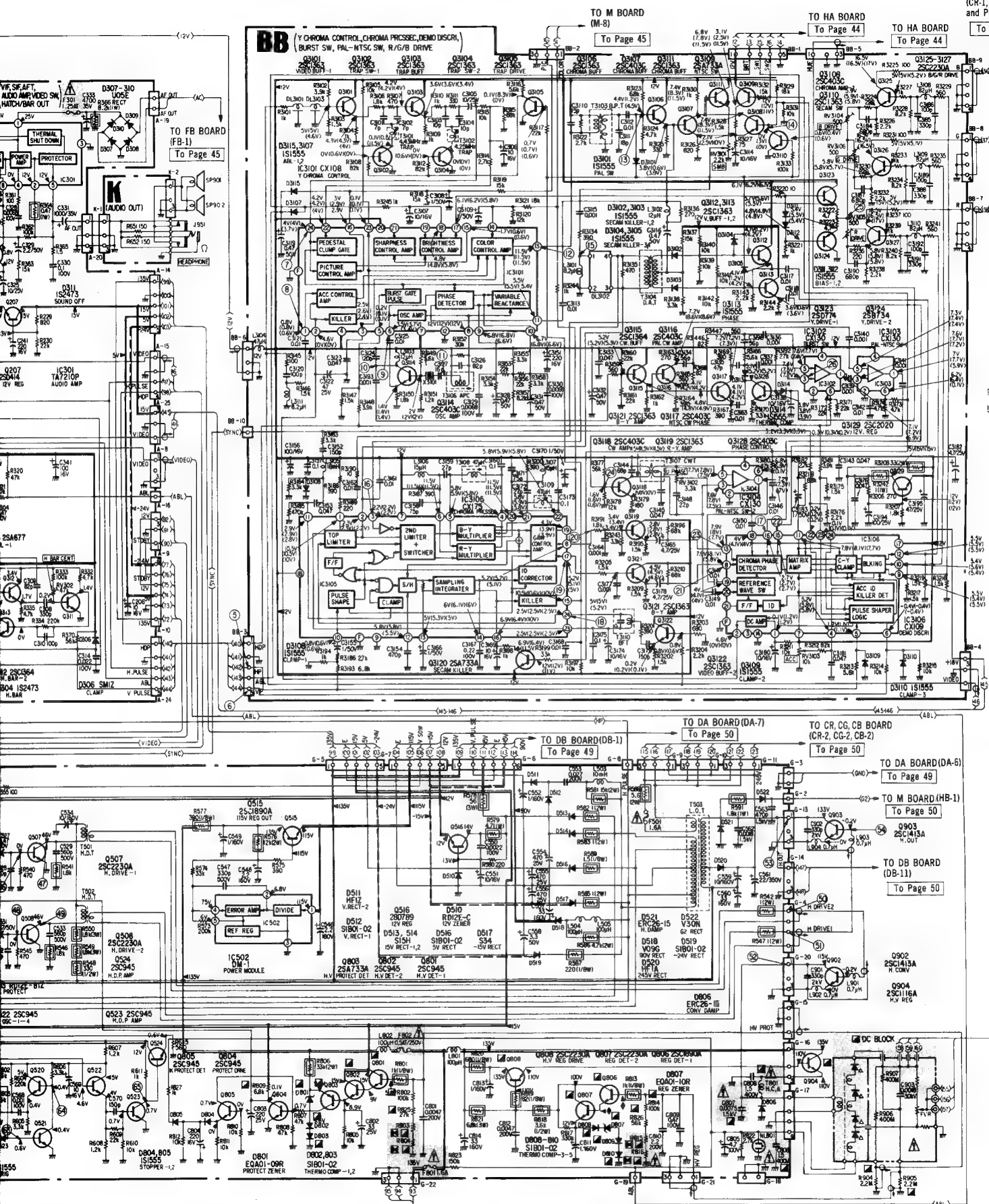




## D



TO CR, CG, CB BOARD  
(CR-1, CG-1, CB-1)  
and PICTURE TUBE



TO FB BOARD  
(FB-5)

To Page 45

# 4-2. SCHEMATIC DIAGRAM (3/3)

TO A BOARD  
(A-23)

To Page 47

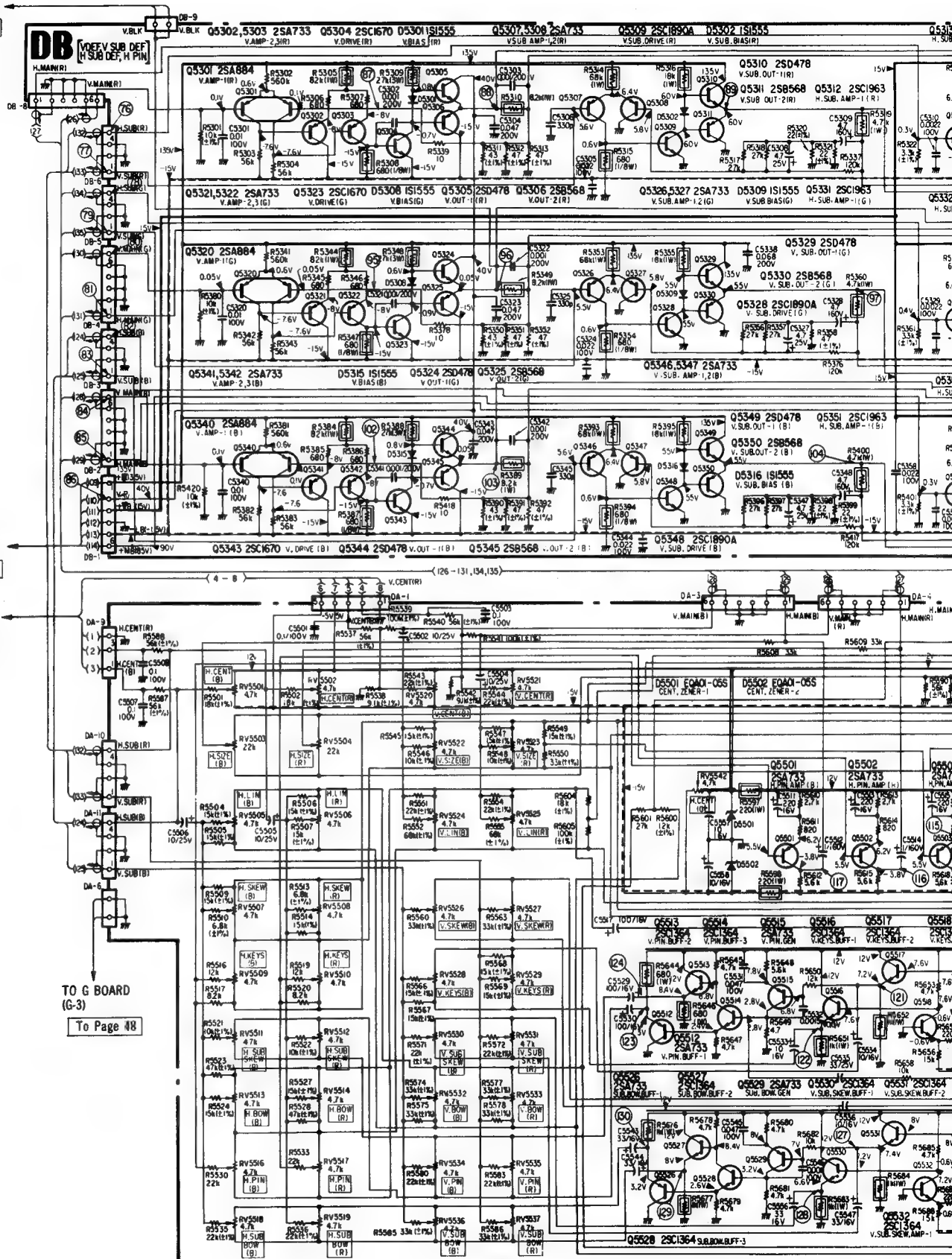
TO II BOARD  
(G-6)

To Page 48

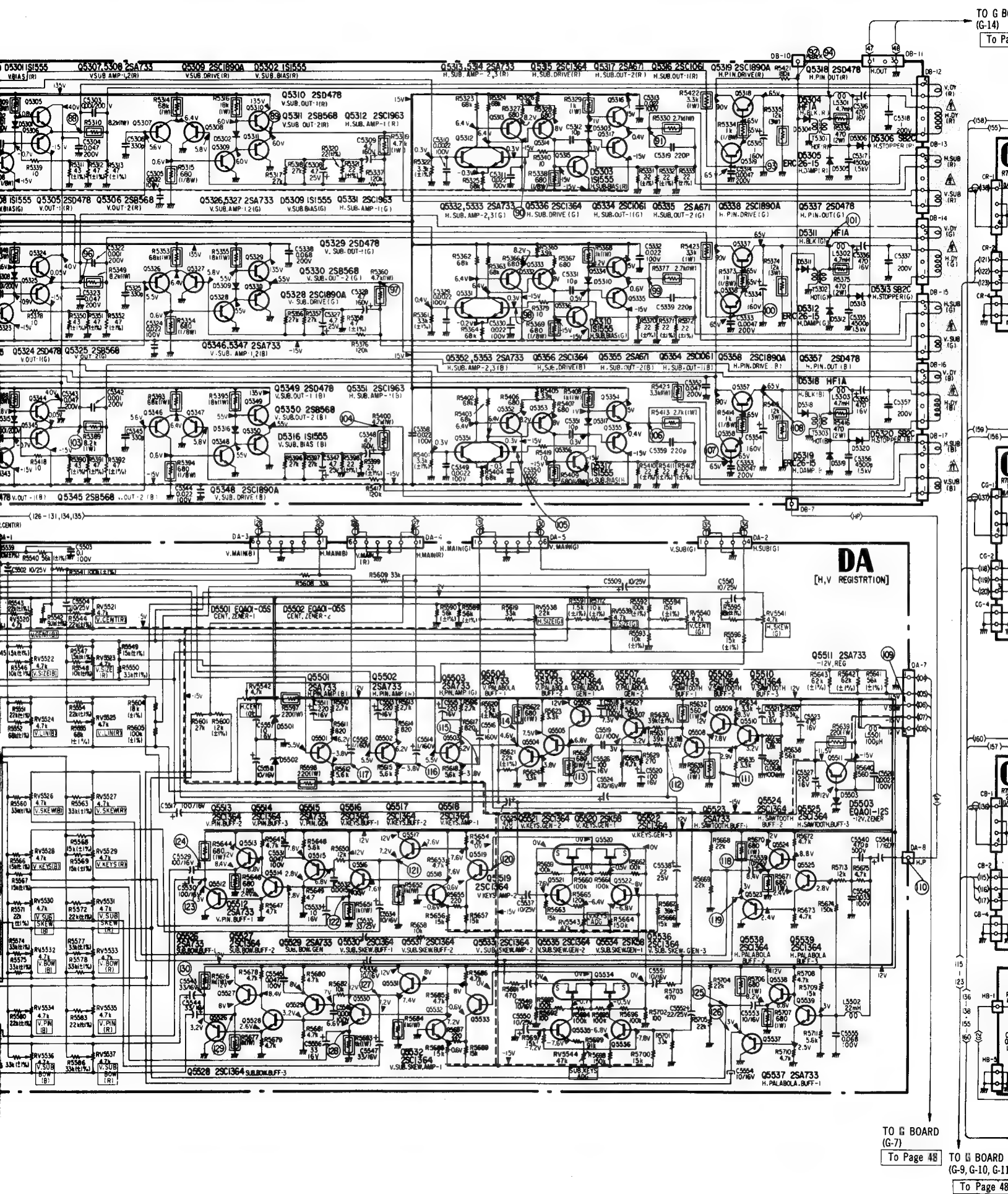
TO HA BOARD  
To Page 44

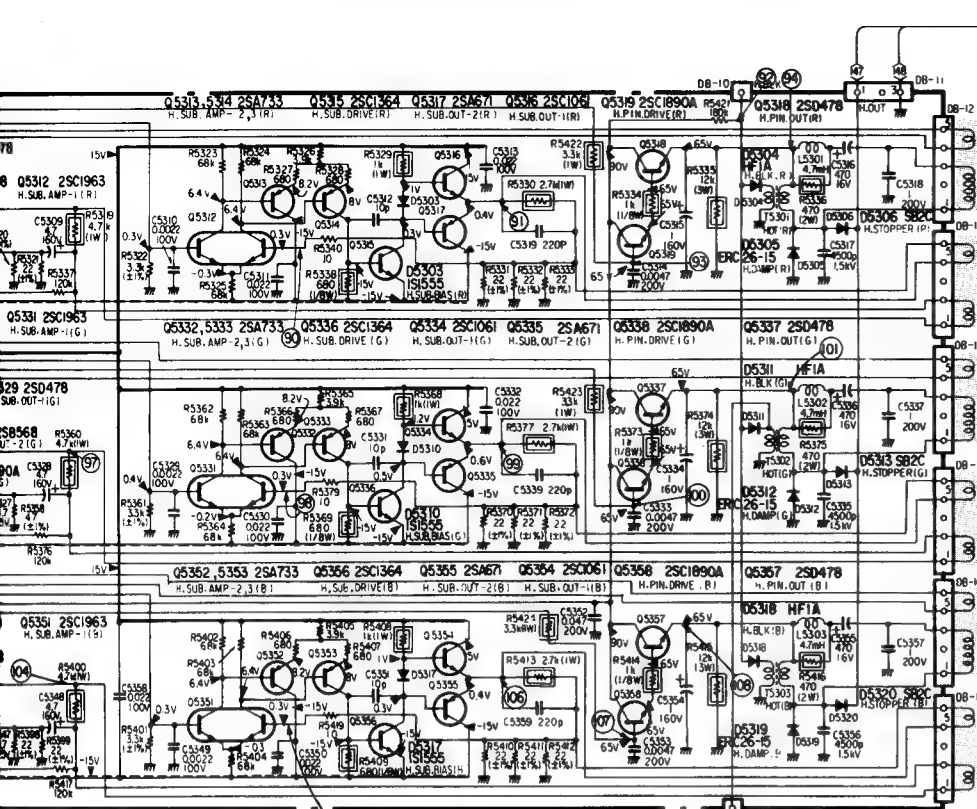
TO G BOARD  
(G-3)

To Page 48

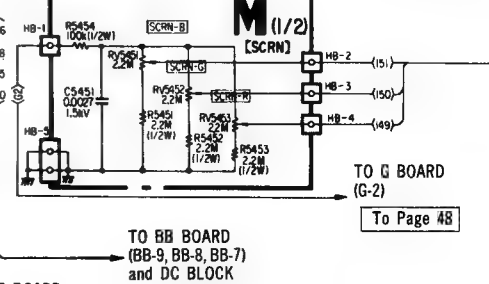
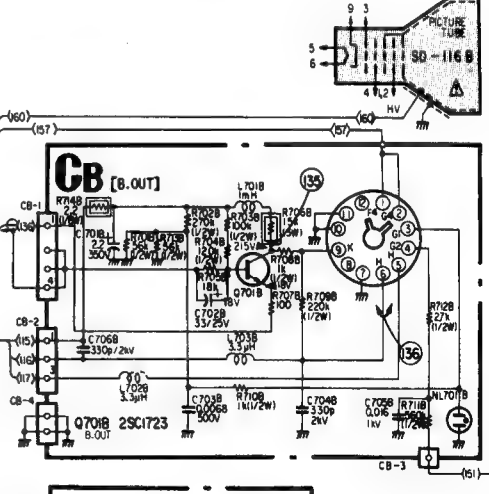
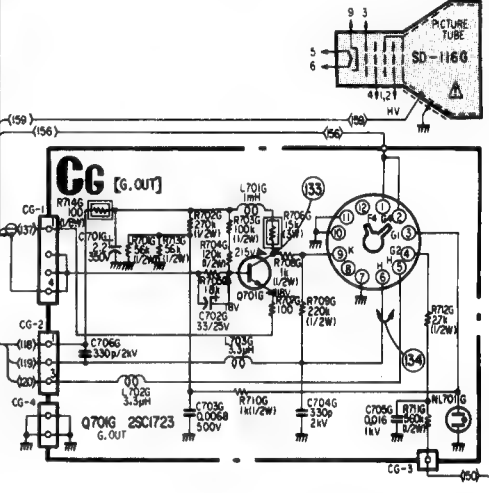
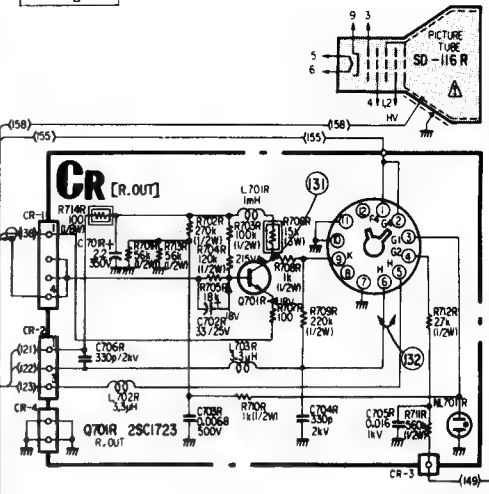




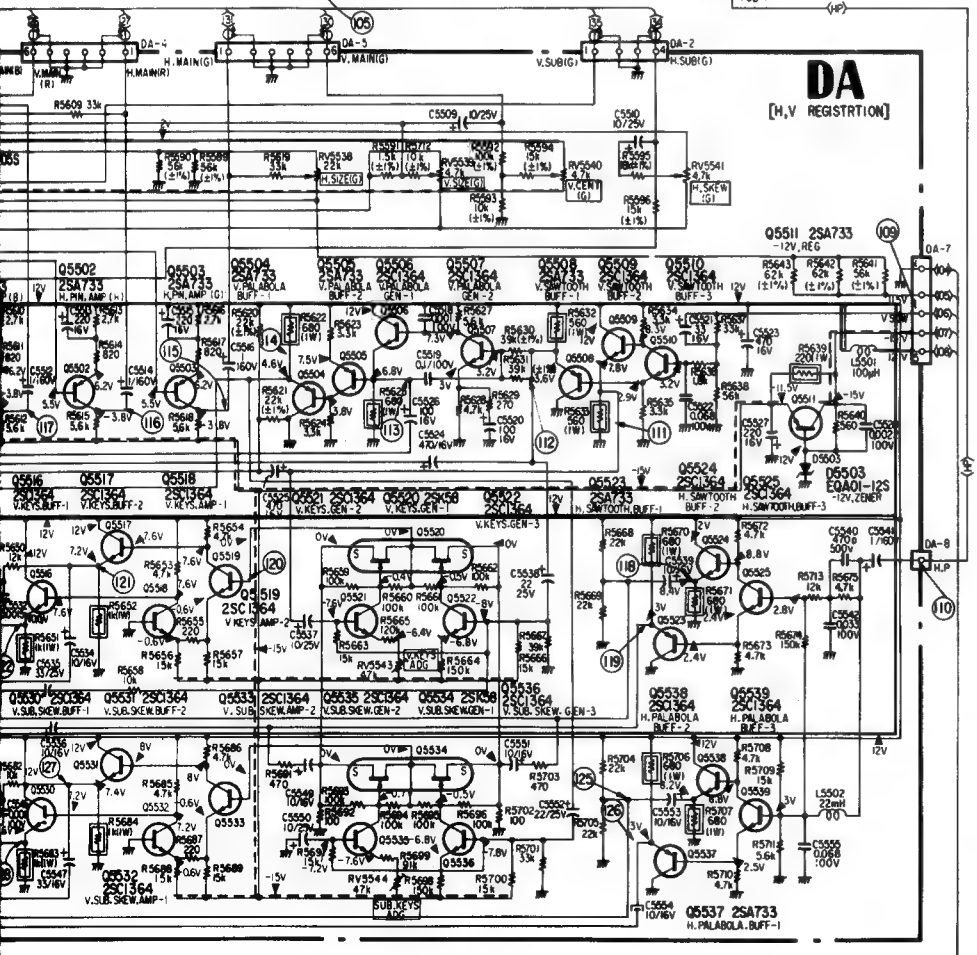




TO G BOARD  
(G-14)  
To Page 48



TO G BOARD  
(G-2)  
To Page 48



DA  
[H.V. REGISTRATION]

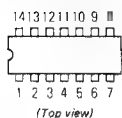
TO G BOARD  
(G-7)  
To Page 48

TO G BOARD  
(G-9, G-10, G-11)  
To Page 48

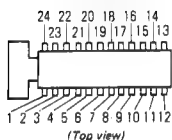
TO BB BOARD  
(BB-9, BB-8, BB-7)  
and DC BLOCK  
To Page 48

# 4-3. SEMICONDUCTORS

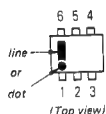
**μPD4002BC**  
**μPD4002C**  
**μPD4011C**  
**μPD4012C**  
**μPD4030BC**  
**μPD4030C**  
**μPD4069C**  
**M5135P**



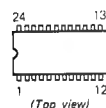
**CX108**  
**CX109**  
**CX175**  
**CX760**  
**CX760D**



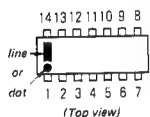
**CX130**



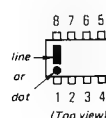
**CX557**  
**CX557A**



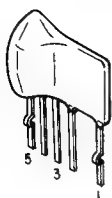
**CX761A**



**CX7916**



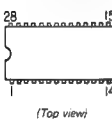
**DM1**  
**PM2**



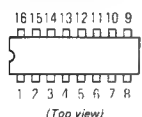
**M51903L**



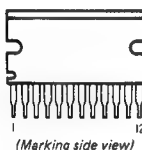
**M58485P**



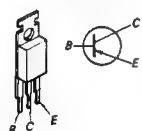
**MC14046BCP**  
**SN29764N**  
**TBA1440G**



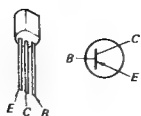
**TA7210P**



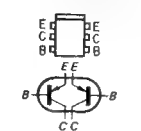
**2SA671**  
**2SB568**



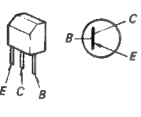
**2SA733**  
**2SA733A**



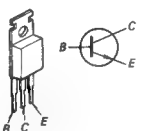
**2SA884**



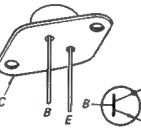
**2SB734**



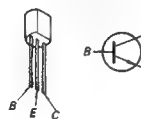
**2SC1061**  
**2SD478**



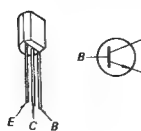
**2SC1114**  
**2SC1116A**  
**2SC1413A**  
**2SD552**



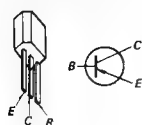
**2SC1128**  
**2SC2009**



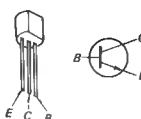
**2SC1362**  
**2SC1363**



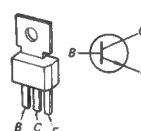
**2SA677**  
**2SA1027R**



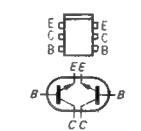
**2SC1364**  
**2SC1633**  
**2SC1670**  
**2SC1890A**  
**2SC2230A**  
**2SC945**  
**2SC2593**



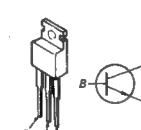
**2SC1723**



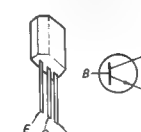
**2SC1963**



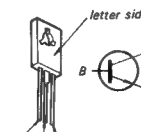
**2SC2020**



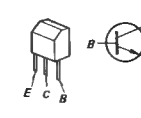
**2SC403C**  
**2SC633A**



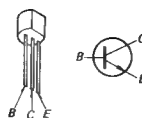
**2SD141**



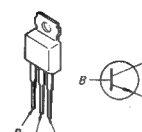
**2SD774**



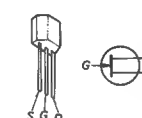
**2SD789**



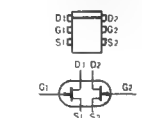
**2SD795A**



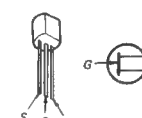
**2SK23A**



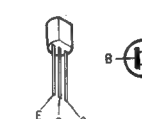
**2SK58**



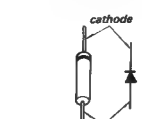
**2SK107**



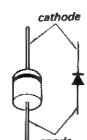
**2N3904**



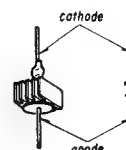
**10E2**  
**1S1555**  
**1S2473**  
**RD5.1E-B**  
**RD5.6E-Z7S**  
**RD9.1E-B**  
**RD12E-B1Z**  
**RD12E-C**



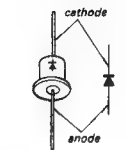
**1SS119**



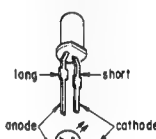
**S15H**



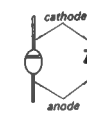
**S34**  
**SB2C**



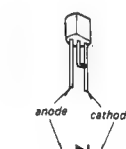
**TLG124**  
**TLR124**  
**TLY124**



**ERC26-15**  
**GH3F**  
**U05E**  
**U05G**  
**V09G**  
**V30N**



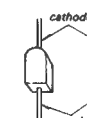
**μPC574J**



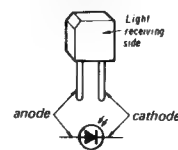
**GP08D**  
**RH1A**



**HF1A**  
**HF1Z**



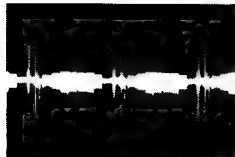
**PH302A**



#### 4-4. WAVEFORM



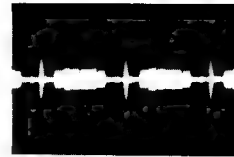
① PAL, SECAM,  
NTSC 4.43  
2.4Vp-p (H)



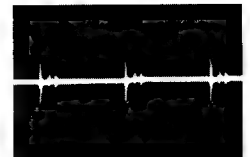
⑧ PAL, SECAM,  
NTSC 4.43  
0.05Vp-p (H)



⑬ SECAM  
0.14Vp-p (H)



⑮ PAL  
0.56Vp-p (H)



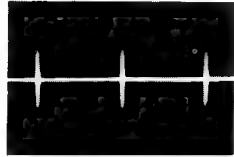
⑰ SECAM  
0.1Vp-p (H)



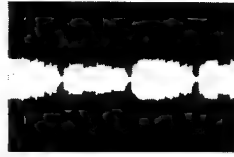
② PAL, SECAM,  
NTSC 4.43  
2.4Vp-p (H)



⑨ PAL, SECAM,  
NTSC 4.43  
0.8Vp-p (H)



⑬ NTSC 4.43  
2Vp-p (H)



⑮ SECAM  
0.4Vp-p (H)



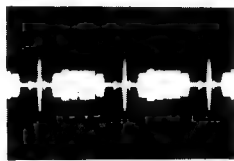
⑱ NTSC 4.43  
0.3Vp-p (H)



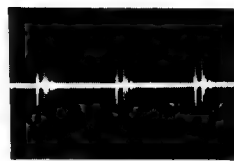
③ PAL, SECAM,  
NTSC 4.43  
2.4Vp-p (H)



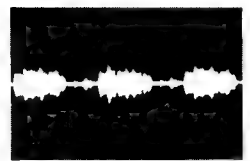
⑩ PAL, SECAM,  
NTSC 4.43  
0.5Vp-p (H)



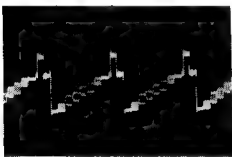
⑬ PAL  
0.4Vp-p (H)



⑯ NTSC 4.43  
0.04Vp-p (H)



⑱ PAL  
0.32Vp-p (H)



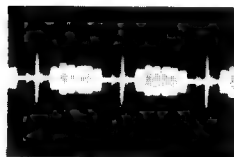
④ PAL, SECAM,  
NTSC 4.43  
2.4Vp-p (H)



⑪ PAL, SECAM,  
NTSC 4.43  
0.7Vp-p (H)



⑭ NTSC 4.43  
0.05Vp-p (H)



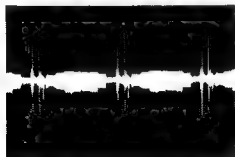
⑯ PAL  
0.4Vp-p (H)



⑱ SECAM  
0.14Vp-p (H)



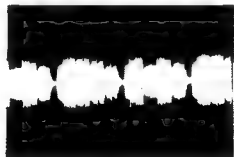
⑤ PAL, SECAM,  
NTSC 4.43  
56Vp-p (H)



⑫ NTSC 4.43  
0.8Vp-p (H)



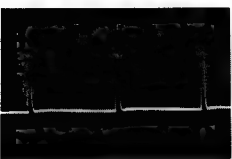
⑭ PAL  
0.4Vp-p (H)



⑯ SECAM  
0.25Vp-p (H)



⑱ NTSC 4.43  
0.3Vp-p (H)



⑥ PAL, SECAM,  
NTSC 4.43  
23Vp-p (V)



⑫ PAL  
0.8Vp-p (H)



⑭ SECAM  
0.2Vp-p (H)



⑰ NTSC 4.43  
2Vp-p (H)



⑱ PAL  
0.1Vp-p (H)



⑦ PAL, SECAM,  
NTSC 4.43  
1Vp-p (H)



⑫ SECAM  
5.6Vp-p (H)



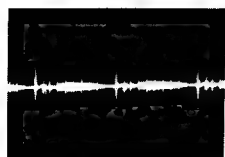
⑮ NTSC 4.43  
0.05Vp-p (H)



⑰ PAL  
0.5Vp-p (H)



⑱ SECAM  
2Vp-p (H)



20 NTSC 4.43  
0.3Vp-p (H)



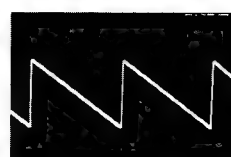
22 PAL  
0.6Vp-p (H)



26 PAL, SECAM,  
NTSC 4.43  
0.9Vp-p (H)



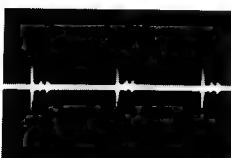
33 NTSC 4.43  
2.8Vp-p (H)



38 1.1Vp-p (V)



20 PAL  
0.1Vp-p (H)



22 SECAM  
0.1Vp-p (H)



27 SECAM  
140Vp-p (H)



33 PAL  
2.8Vp-p (H)



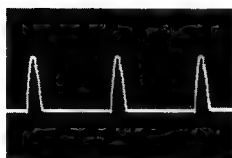
39 9Vp-p (H)



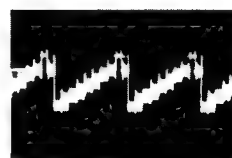
20 SECAM  
2Vp-p (H)



23 NTSC 4.43, PAL  
0.3Vp-p (H)  
0.1Vp-p (H)



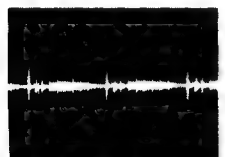
28 PAL, SECAM,  
NTSC 4.43  
23Vp-p (H)



33 SECAM  
2.5Vp-p (H)



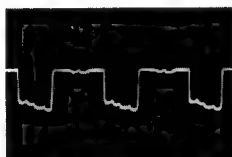
40 NTSC 4.43  
2.2Vp-p (H)  
PAL  
2.3Vp-p (H)  
SECAM  
2.4Vp-p (H)



21 NTSC 4.43  
0.3Vp-p (H)



23 SECAM  
0.8Vp-p (H)



29 PAL, SECAM,  
NTSC 4.43  
160Vp-p (H)



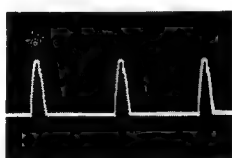
34 3.5Vp-p (V)



21 PAL  
0.1Vp-p (H)



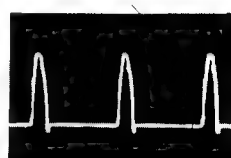
24 NTSC 4.43  
0.8Vp-p (H)



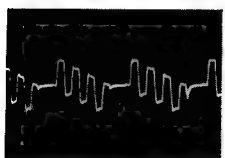
30 PAL, SECAM,  
NTSC 4.43  
23Vp-p (H)



35 3Vp-p (V)



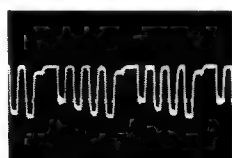
41 3Vp-p (H)



21 SECAM  
1Vp-p (H)



24 PAL, SECAM  
0.6Vp-p (H)



31 PAL, SECAM,  
NTSC 4.43  
170Vp-p (H)



36 0.06Vp-p (V)



42 4Vp-p (H)



22 NTSC 4.43  
1.9Vp-p (H)



25 2.6Vp-p (H) PAL  
3Vp-p (H) SECAM  
2.4Vp-p (H) NTSC 4.43



32 PAL, SECAM,  
NTSC 4.43  
23Vp-p (H)



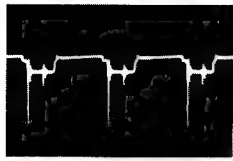
37 0.37Vp-p (V)



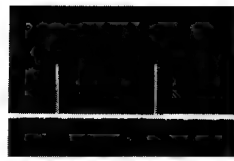
43 0.5Vp-p (H)



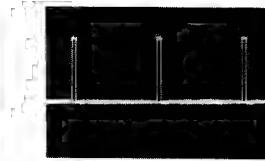
(44) 2.2Vp-p (H)



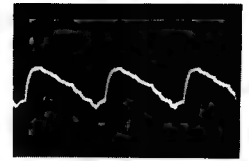
(51) 19Vp-p (H)



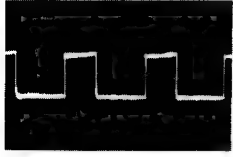
(58) 11Vp-p (H)



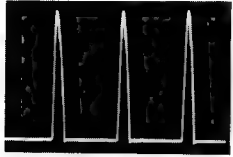
(65) 12Vp-p (H)



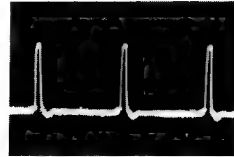
(72) PAL, SECAM,  
NTSC 4.43  
1.8Vp-p (H)



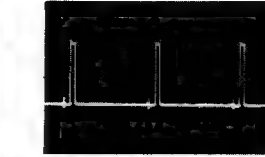
(45) 1.8Vp-p (H)



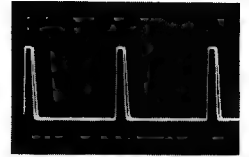
(52) 1000Vp-p (H)



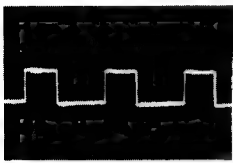
(59) 2.9Vp-p (H)



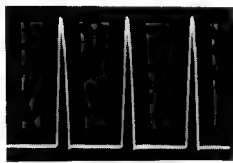
(66) 12Vp-p (H)



(73) 12.5Vp-p (H)



(46) 1.5Vp-p (H)



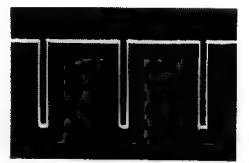
(53) 1200Vp-p (H)



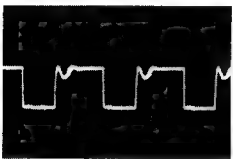
(60) 4Vp-p (H)



(67) 15Vp-p



(74) 12.5Vp-p (H)



(47) 90Vp-p (H)



(54) 21Vp-p (H)



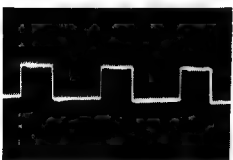
(61) 5.2Vp-p (H)



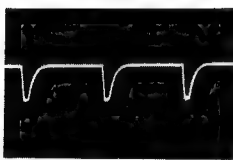
(68) 12.5Vp-p



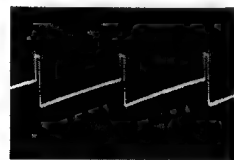
(75) 11Vp-p  
CH-1 PRESSED



(48) 1.5Vp-p (H)



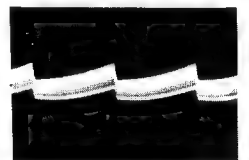
(55) 7Vp-p (H)



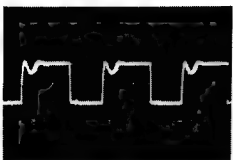
(62) 4Vp-p (H)



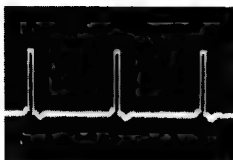
(69) 12.5Vp-p



(76) 0.28Vp-p (V)



(49) 100Vp-p (H)



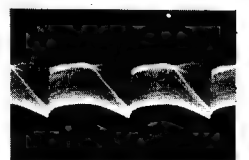
(56) 13Vp-p (H)



(63) 3.6Vp-p (H)



(70) 12.5Vp-p



(77) 0.3Vp-p (H)



(50) 17Vp-p (H)



(57) 11Vp-p (H)



(64) 5.2Vp-p (H)



(71) 32Vp-p



(78) 0.04Vp-p (V)





79 0.8Vp-p (V)



86 90Vp-p (V)



93 9Vp-p (V)



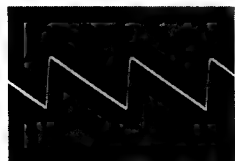
100 9Vp-p (V)



107 9Vp-p (V)



80 2Vp-p (V)



87 2Vp-p (V)



94 9Vp-p (V)



101 9Vp-p (V)



108 9Vp-p (V)



81 5.6Vp-p (V)



88 76Vp-p (V)



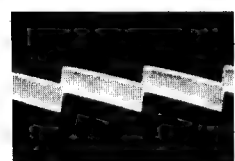
95 2.1Vp-p (V)



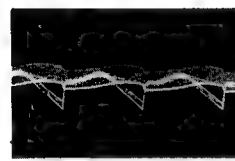
102 2.1Vp-p (V)



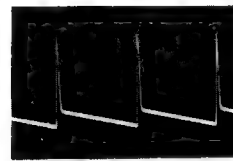
109 2.8Vp-p (V)



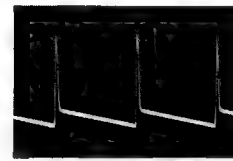
82 0.16Vp-p (V)



89 19Vp-p (V)



96 80Vp-p (V)



103 80Vp-p (V)



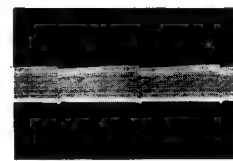
110 70Vp-p (H)



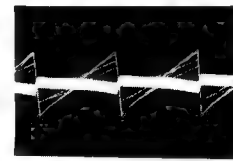
83 0.26Vp-p (V)



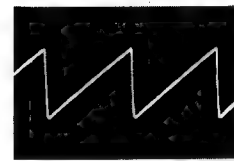
90 0.3Vp-p (V)



97 9Vp-p (V)



104 36Vp-p (V)



111 2.8Vp-p (V)



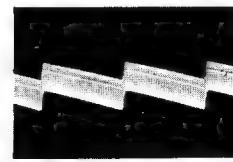
84 2Vp-p (V)



91 14Vp-p (V)



98 0.04Vp-p (V)



105 0.4Vp-p (V)



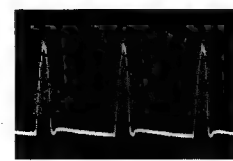
112 2.6Vp-p (V)



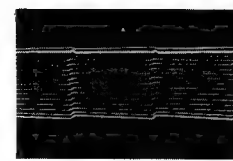
85 5.6Vp-p (V)



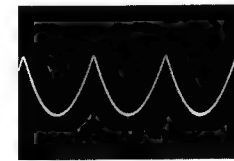
92 66Vp-p (H)



99 3.8Vp-p (V)



106 15Vp-p (V)



113 2.8Vp-p (H)



(114) 2.6Vp-p (V)



(121) 2.7Vp-p (V)



(128) 3.6Vp-p (V)



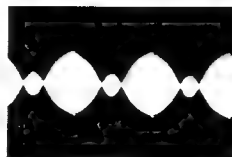
(135) 85Vp-p (H)



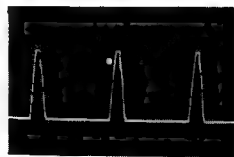
(115) 5.6Vp-p (V)



(122) 2.7Vp-p (V)



(129) 3Vp-p (V)



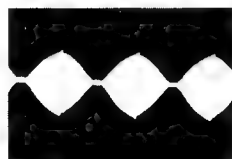
(136) 28Vp-p (H)



(116) 5.2Vp-p (V)



(123) 2.3Vp-p (V)



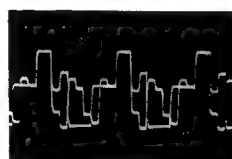
(130) 3Vp-p (V)



(117) 5.2Vp-p (V)



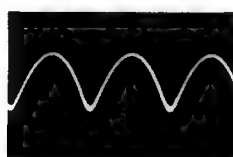
(124) 2.4Vp-p (V)



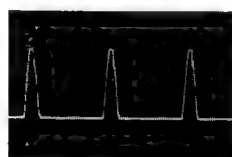
(131) 64Vp-p (H)



(118) 2.6Vp-p (H)



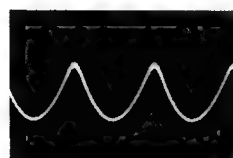
(125) 2.4Vp-p (H)



(132) 28Vp-p (H)



(119) 2.6Vp-p (H)



(126) 2.4Vp-p (H)



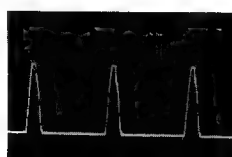
(133) 90Vp-p (H)



(120) 0.18Vp-p (V)



(127) 3.6Vp-p (V)



(134) 28Vp-p (H)



# SECTION 6 EXPLODED VIEWS

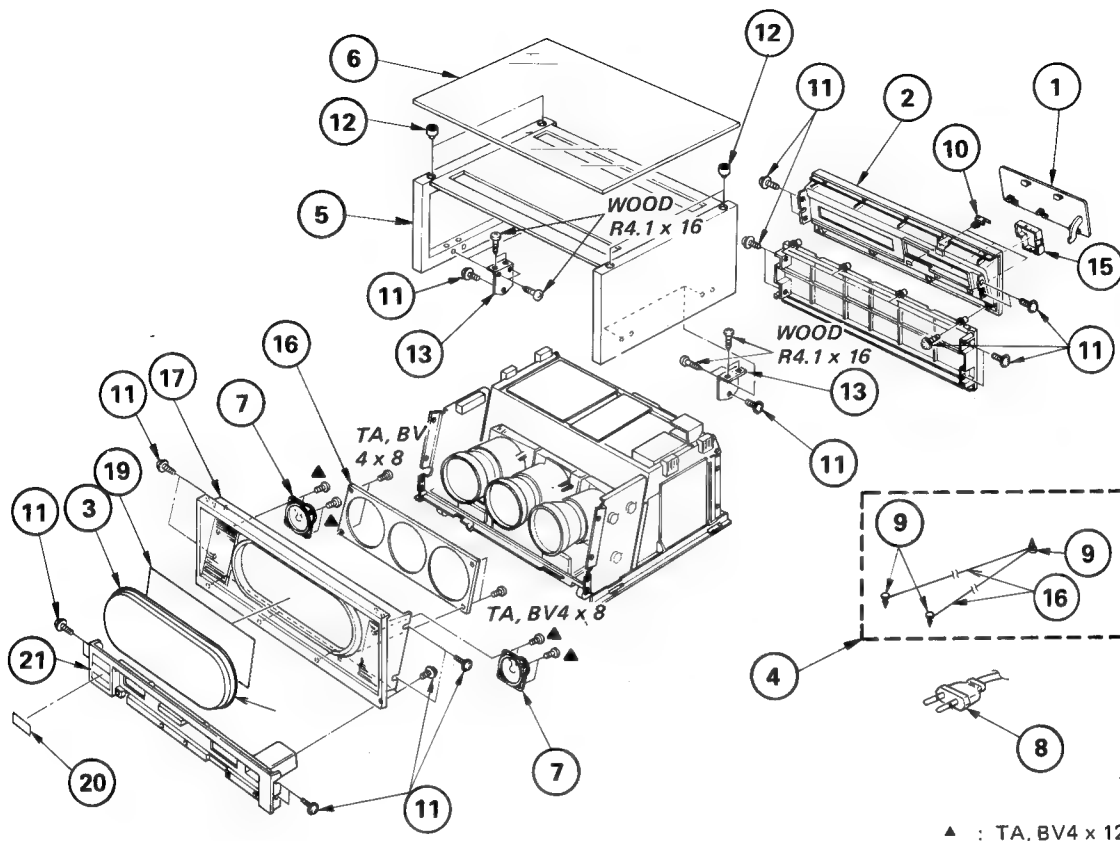
A

B

C

D

## (1) CABINET



No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	X-4346-406-5	DOOR ASSY, CONTROL		14	4-346-420-02	CORD (B), SET UP (KP-5020)	
2	X-4346-426-1	PANEL ASSY, CONTROL	1		4-346-421-02	CORD (C), SET UP (KP-7220)	
3	X-4346-418-0	COVER ASSY, LENS		15	4-346-426-00	COVER, HATCH SWITCH	
4	X-4346-420-0	CORD (B) ASSY, SET UP	9,14	16	▲:4-346-443-00	COVER (B), MIRROR BARREL (KP-5020)	
5	X-4350-305-2	CABINET ASSY	12,13		▲:4-346-453-00	COVER (C), MIRROR BARREL (KP-7220)	
6	X-4350-308-0	GLASS ASSY, TOP		17	4-346-466-00	PANEL, LENS	
7	1-502-966-00	SPEAKER		18	4-346-469-00	PANEL, UNDER	
8	▲:1-555-750-00	CORD, POWER, EULO PLUG		19	4-347-707-00	SHEET	
9	3-641-283-00	CLIP, CANOE		20	▲:4-347-795-00	LABEL, MODEL NUMBER (KP-5020)	
10	3-703-035-11	SHAFT, LID			▲:4-347-796-00	LABEL, MODEL NUMBER (KP-7220)	
11	3-703-251-00	SCREW (+M4), IT TAPPING		21	4-347-739-00	PANEL, REAR	
12	4-346-411-00	CUSHION, GLASS		22	4-346-468-00	COVER, LENS	
13	▲:4-346-417-00	BRACKET (A), CABINET					

### NOTE:

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- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

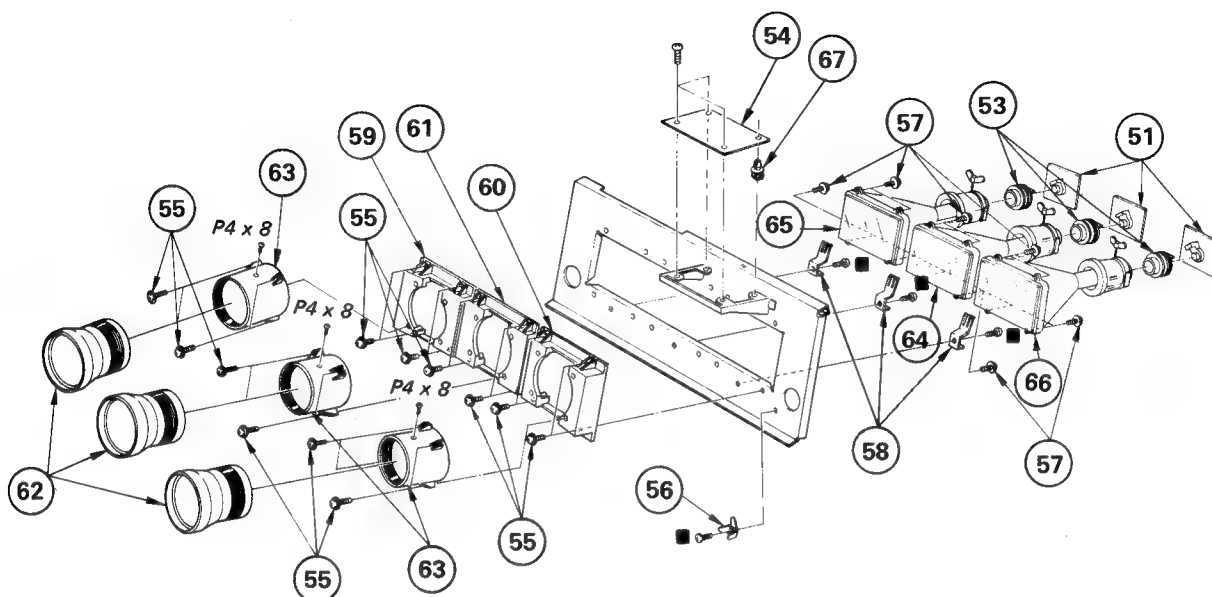
A

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C

D

## (2) PICTURE TUBE



■ : TA, BV3 x 8

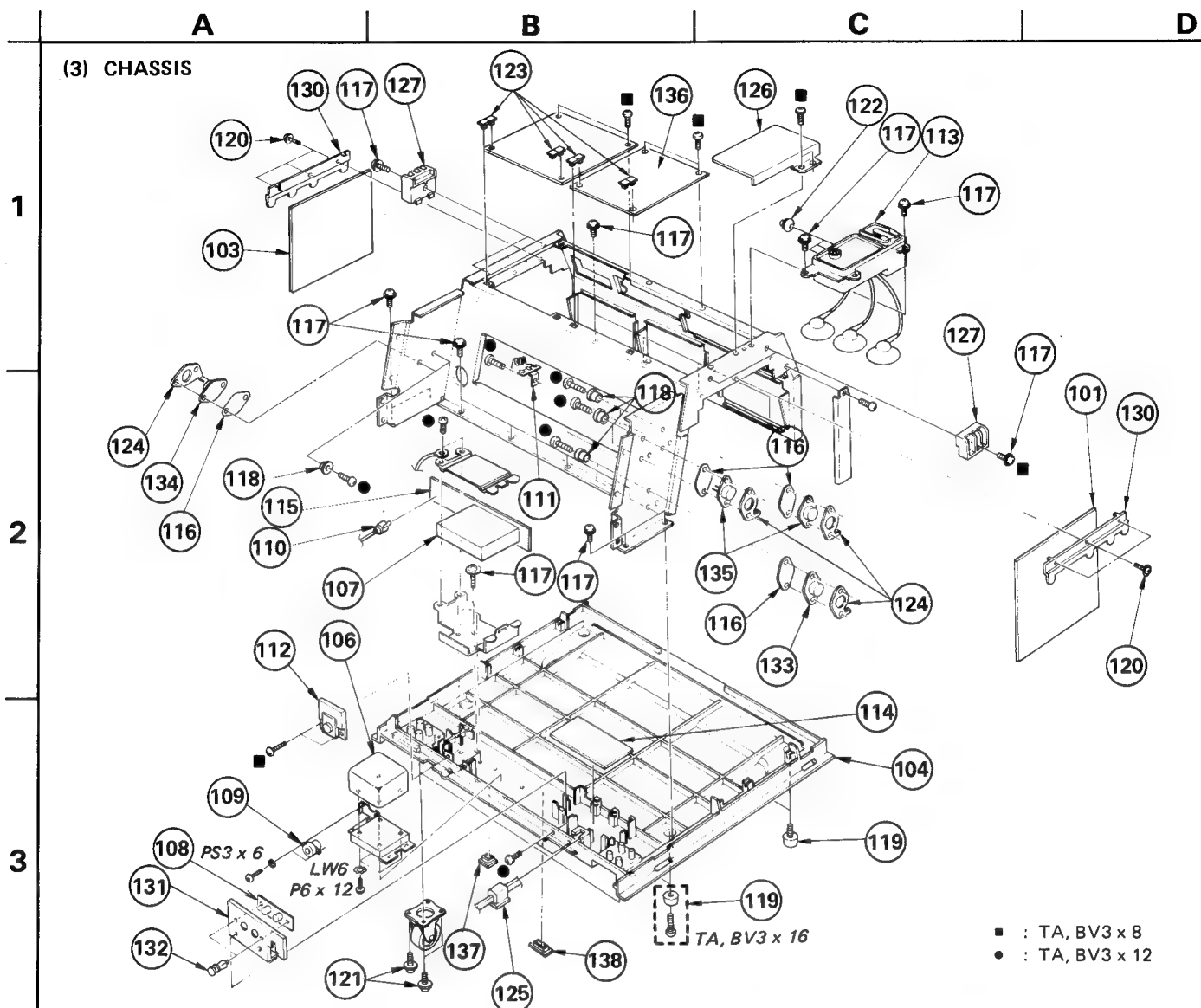
No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	▲:A-1330-277-A	C BOARD, COMPLETE		60	▲:4-346-441-11	BRACKET (BR), LENS (KP-5020)	
52	▲:1-451-190-00	DEFLECTION YOKE (SY-116)		61	▲:4-346-454-11	BRACKET (CR), LENS (KP-7220)	
53	▲:1-452-203-41	CRT NECK ASSEMBLY		62	▲:4-346-442-11	BRACKET (BG), LENS (KP-5020)	
54	▲:1-604-597-00	FB BOARD		63	▲:4-346-455-11	BRACKET (CG), LENS (KP-7220)	
55	3-703-251-00	SCREW (+M4), IT TAPPING		64	4-350-305-00	LENS (5305)	
56	▲:4-303-793-00	TERMINAL, GROUND		65	4-350-315-00	BARREL, MOUNT, LENS	
57	4-304-494-11	SCREW, TAPPING, +PW4X16		66	▲:8-738-101-05	CRT, SD-116 G	
58	4-332-209-00	SPRING		67	▲:8-738-102-05	CRT, SD-116 B	
59	▲:4-346-440-11	BRACKET (BB), LENS (KP-5020)			▲:8-738-103-05	CRT, SD-116 R	
	▲:4-346-456-11	BRACKET (CB), LENS (KP-7220)			▲:4-303-473-00	SUPPORT, PC	

## NOTE:

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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No.	Part No	Description	Remark	No.	Part No	Description	Remark
101	▲:A-1316-013-A	G BOARD, COMPLETE		120	4-302-428-00	HEAD, WASHER, TAPPING SCREW	
102	▲:A-1340-342-A	DA BOARD, COMPLETE		121	4-302-934-00	HEAD, WASHER, TAPPING SCREW	
103	▲:A-1340-343-A	DB BOARD, COMPLETE		122	▲:4-308-858-00	CAP, LEAD, FC	
104	X-4346-422-0	BASE ASSY	119, 121, 128	123	▲:4-313-732-00	CLIP, HINGE, CIRCUIT BOARD	
105	1-205-497-00	RES, SEMENT 120		124	▲:4-314-938-01	RETAINER (T0-3), TRANSISTOR	
106	▲:1-446-968-00	TRANSFORMER, POWER		125	▲:4-316-102-00	HOLDER, AC CORD	
107	▲:1-463-172-00	TUNER (BT-851)		126	▲:4-346-419-00	COVER, FBT	
108	1-507-142-XX	PIN JACK, 2P		127	▲:4-346-431-00	HOLDER, CABINET	
109	▲:1-526-572-00	SOCKET, POWER VOLTAGE SELECT		128	4-346-435-00	CASTER	
110	▲:1-534-885-00	CABLE, P-P		129	▲:4-346-436-00	STAY, G BRACKET	
111	1-536-378-XX	L-TYPE TERMINAL STRIP		130	▲:4-347-705-00	RETAINER, PC BOARD	
112	▲:1-536-494-00	ANT TERMINAL ASSY		131	4-347-736-00	BOARD, TERMINAL, CONNECTOR	
113	▲:1-453-088-00	DC BLOCK HIGH-VOLTAGE		132	4-812-134-00	RIVET NYLON, 3.5	
114	▲:1-604-596-00	FA BOARD		133	8-729-311-42	TRANSISTOR 2SC1114-0	
115	▲:1-600-947-00	S BOARD		134	8-729-341-34	TRANSISTOR 2SC1413A	
116	3-701-353-00	SPACER, MICA		135	8-729-341-34	TRANSISTOR 2SC1413A	
117	3-703-251-00	SCREW (+M4), IT TAPPING		136	▲:A-1306-129-A	M BOARD, COMPLETE	
118	3-703-320-00	BUSHING (A), TRANSISTOR		137	4-347-714-00	BUSHING (A)	
119	3-703-369-00	ADJUSTOR		138	4-347-715-00	BUSHING (B)	

#### NOTE:

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The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

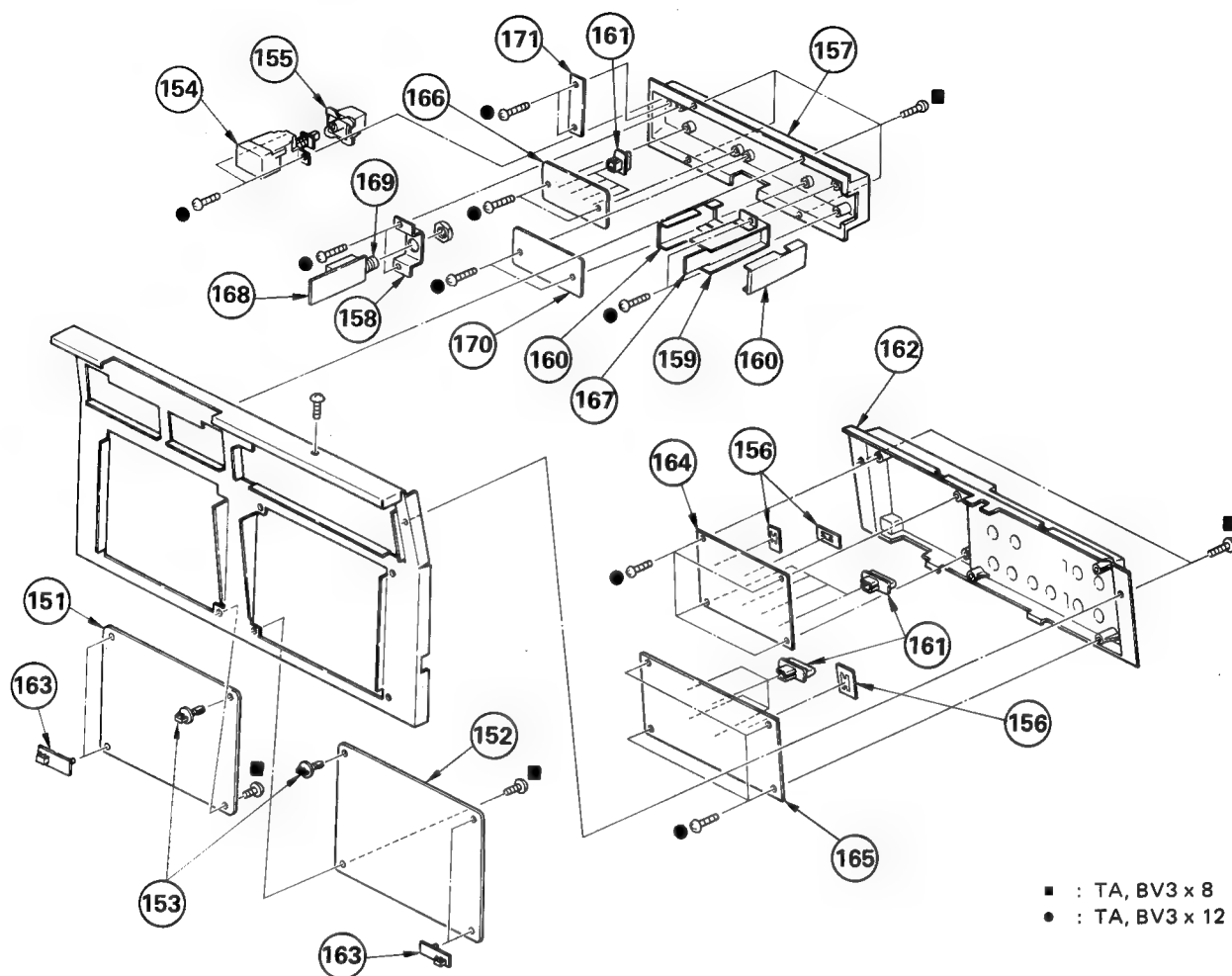
A

B

C

D

## (4) CONTROL PANEL



■ : TA, BV3 x 8  
 ● : TA, BV3 x 12

No.	Part No	Description	Remark	No.	Part No	Description	Remark
151	▲:A-1295-484-A	A BOARD, COMPLETE		162	▲:X-4346-423-0	CASE ASSY, CONTROL	
152	▲:A-1135-132-A	BB BOARD, COMPLETE		163	▲:3-701-832-00	HINGE, CIRCUIT BOARD	
153	▲:4-303-473-00	SUPPORT, PC		164	▲:1-604-599-00	HC BOARD	
154	▲:1-553-225-00	SWITCH, PUSH		165	▲:1-604-598-00	HA BOARD	
155	4-346-409-00	BUTTON, POWER		166	▲:1-604-602-00	HF BOARD	
156	4-314-869-00	INSULATOR, SLIDE SWITCH		167	▲:1-604-604-00	X BOARD	
157	X-4346-425-0	BRACKET ASSY, CONTROL		168	▲:1-605-209-00	K BOARD	
158	▲:4-347-734-00	BRACKET, JACK, HEADPHONE		169	1-507-657-00	JACK	
159	▲:4-339-716-00	CASE, SHIELD (X) (MAIN)		170	▲:1-604-600-00	HD BOARD	
160	▲:4-339-717-00	CASE, SHIELD (X) (UPPER, LOWER)		171	▲:1-604-601-00	HE BOARD	
161	4-333-703-00	BUTTON, CHANNEL					

## NOTE:

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

A

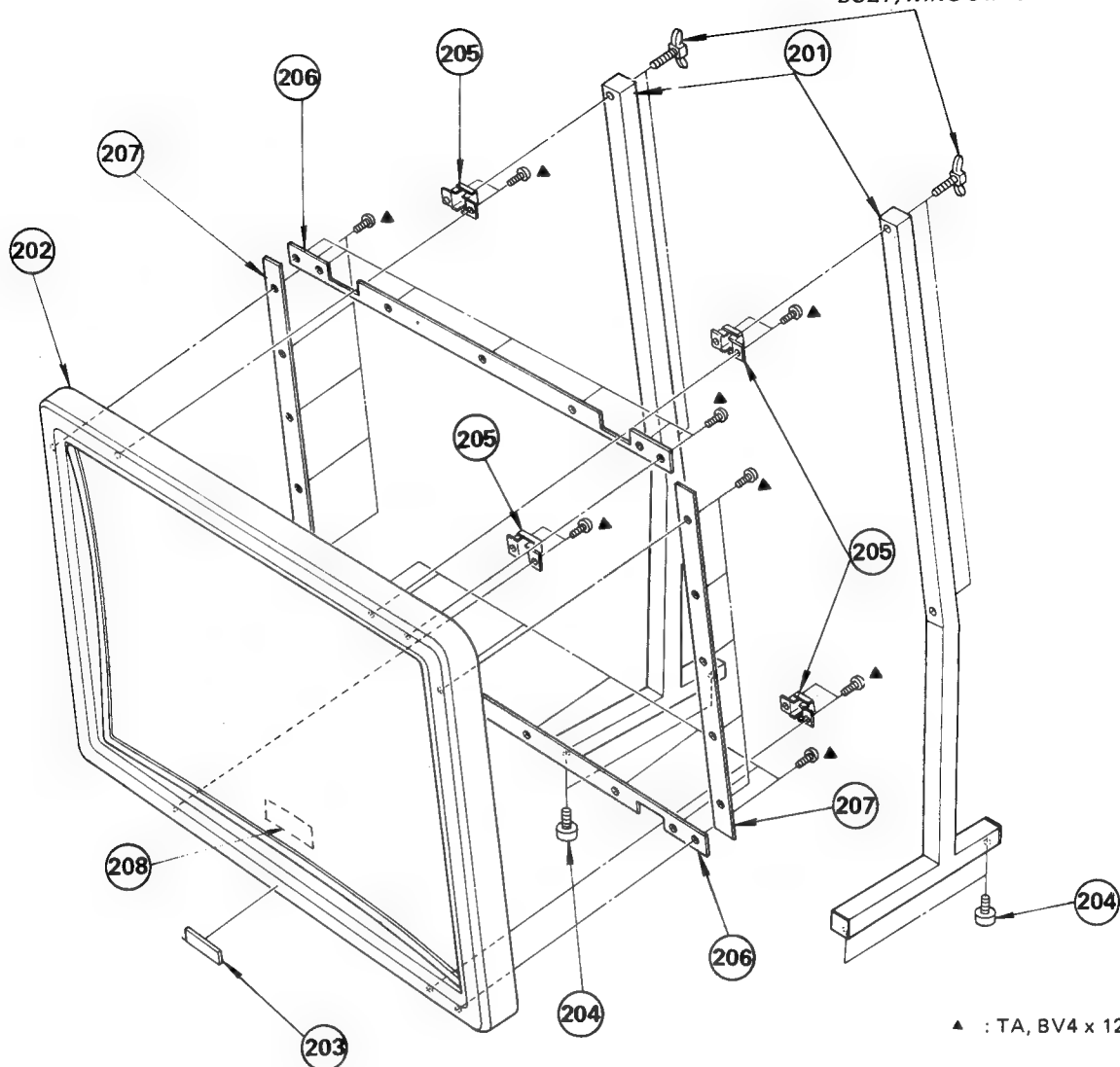
B

C

D

## (5) SCREEN (KP-5020)

BOLT, WING 6 x 40



▲ : TA, BV4 x 12

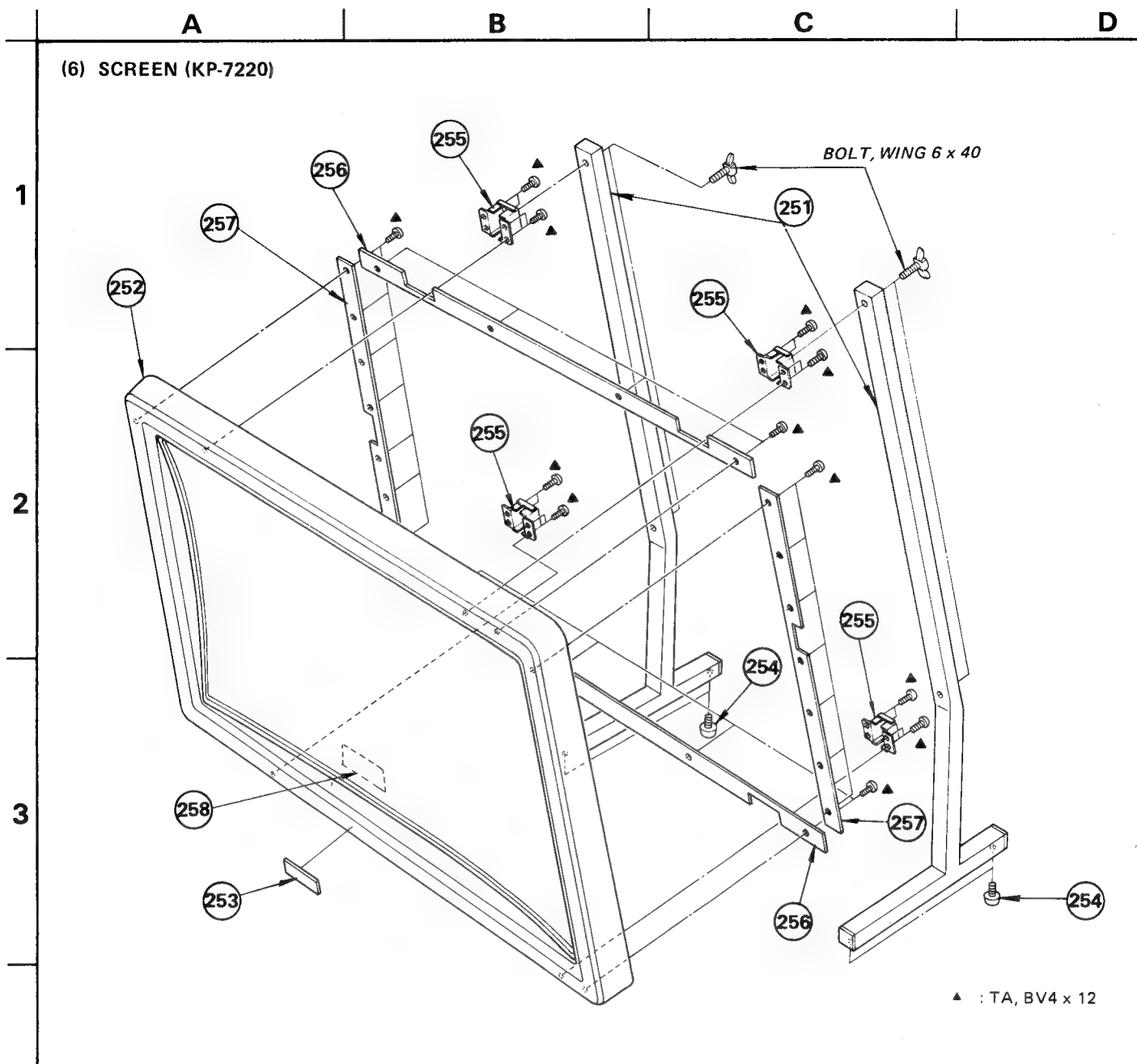
No.	Part No	Description	Remark	No.	Part No	Description	Remark
201	X-4346-405-0	POLE (B) ASSY, SCREEN		204	204	3-703-369-00	ADJUSTOR
202	X-4346-411-0	SCREEN ASSY (B)		203,205	205	▲:4-346-414-00	BRACKET (B), SCREEN
				206,207	206	▲:4-346-429-00	HOLDER (A), SCREEN
				208	207	▲:4-346-430-00	HOLDER (B), SCREEN
203	3-651-703-00	EMBLEM, SONY		208	208	▲:4-347-704-01	LABEL, SCREEN

## NOTE:

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- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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No.	Part No	Description	Remark	No.	Part No	Description	Remark
251	X-4346-408-0	POLE (C) ASSY, SCREEN		254	3-703-369-00	ADJUSTOR	
252	X-4346-412-0	SCREEN ASSY (C)		255	▲:4-346-415-00	BRACKET (C), SCREEN	
				256	▲:4-346-433-00	HOLDER (C), SCREEN	
253	3-651-703-00	EMBLEM, SONY		257	▲:4-346-434-00	HOLDER (D), SCREEN	
				258	▲:4-347-704-11	LABEL, SCREEN	

**NOTE:**

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- The construction parts of an assembled part are indicated with a collation number in the remark column.

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The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C3189	1-102-973-00	CERAMIC 100PF	5% 50V	<u>TRANSISTOR</u>			
C3190	1-102-116-00	CERAMIC 680PF	10% 50V	Q3101	>8-729-663-47	TRANSISTOR 2SC1364	
C3191	1-102-820-00	CERAMIC 330PF	5% 50V	Q3102	>8-729-663-47	TRANSISTOR 2SC1364	
C3192	1-102-973-00	CERAMIC 100PF	5% 50V	Q3103	>8-729-663-47	TRANSISTOR 2SC1364	
C3193	1-102-074-00	CERAMIC 0.001MF	10% 50V	Q3104	>8-729-663-47	TRANSISTOR 2SC1364	
C3194	1-123-333-00	ELECT 100MF	20% 25V	Q3105	>8-729-663-47	TRANSISTOR 2SC1364	
C3195	1-123-332-00	ELECT 47MF	20% 25V	Q3106	>8-729-663-47	TRANSISTOR 2SC1364	
C3196	1-101-884-00	CERAMIC 56PF	5% 50V	Q3107	8-724-375-01	TRANSISTOR 2SC403C	
C3200	1-102-116-00	CERAMIC 680PF	10% 50V	Q3108	8-724-375-01	TRANSISTOR 2SC403C	
<u>DIODE</u>				Q3109	>8-729-612-77	TRANSISTOR 2SA1027R	
D3101	>8-719-911-19	DIODE 1SS119		Q3110	>8-729-663-47	TRANSISTOR 2SC1364	
D3102	>8-719-911-19	DIODE 1SS119		Q3111	>8-729-663-47	TRANSISTOR 2SC1364	
D3103	>8-719-911-19	DIODE 1SS119		Q3112	>8-729-663-47	TRANSISTOR 2SC1364	
D3104	>8-719-911-19	DIODE 1SS119		Q3113	>8-729-663-47	TRANSISTOR 2SC1364	
D3105	>8-719-911-19	DIODE 1SS119		Q3114	8-724-375-01	TRANSISTOR 2SC403C	
D3107	>8-719-911-19	DIODE 1SS119		Q3115	>8-729-663-47	TRANSISTOR 2SC1364	
D3108	>8-719-911-19	DIODE 1SS119		Q3116	8-724-375-01	TRANSISTOR 2SC403C	
D3109	>8-719-911-19	DIODE 1SS119		Q3117	8-724-375-01	TRANSISTOR 2SC403C	
D3110	>8-719-911-19	DIODE 1SS119		Q3118	8-724-375-01	TRANSISTOR 2SC403C	
D3111	>8-719-911-19	DIODE 1SS119		Q3119	>8-729-663-47	TRANSISTOR 2SC1364	
D3112	>8-719-911-19	DIODE 1SS119		Q3120	>8-729-612-77	TRANSISTOR 2SA1027R	
D3113	>8-719-911-19	DIODE 1SS119		Q3121	>8-729-663-47	TRANSISTOR 2SC1364	
D3114	>8-719-911-19	DIODE 1SS119		Q3122	>8-729-663-47	TRANSISTOR 2SC1364	
D3115	>8-719-911-19	DIODE 1SS119		Q3123	8-729-177-43	TRANSISTOR 2SD774	
<u>DELAY LINE</u>				Q3124	8-729-103-43	TRANSISTOR 2SB734	
DL3101	1-415-100-00	DELAY LINE		Q3125	8-729-213-11	TRANSISTOR 2SC2230A	
DL3102	1-415-122-00	DELAY LINE		Q3126	8-729-213-11	TRANSISTOR 2SC2230A	
DL3103	1-415-100-00	DELAY LINE		Q3127	8-729-213-11	TRANSISTOR 2SC2230A	
<u>IC</u>				Q3128	8-724-375-01	TRANSISTOR 2SC403C	
IC3101	8-751-080-00	IC CX108		Q3129	8-765-370-00	TRANSISTOR 2SC2020	
IC3102	8-751-300-00	IC CX130		<u>RESISTOR</u>			
IC3103	8-751-300-00	IC CX130		R3101	1-246-473-00	CARBON 1K 5% 1/4W	
IC3104	8-751-300-00	IC CX130		R3102	1-246-487-00	CARBON 3.9K 5% 1/4W	
IC3105	8-751-750-00	IC CX175		R3103	1-246-477-00	CARBON 1.5K 5% 1/4W	
IC3106	8-751-090-00	IC CX109		R3104	1-246-473-00	CARBON 1K 5% 1/4W	
<u>COIL</u>				R3105	1-246-497-00	CARBON 10K 5% 1/4W	
L3101	1-407-189-XX	MICRO INDUCTOR 8.2UH		R3106	1-246-479-00	CARBON 1.8K 5% 1/4W	
L3102	1-407-694-00	MICRO INDUCTOR 12UH		R3107	1-246-465-00	CARBON 470 5% 1/4W	
L3103	1-407-694-00	MICRO INDUCTOR 12UH		R3108	1-246-519-00	CARBON 82K 5% 1/4W	
L3104	1-407-701-00	MICRO INDUCTOR 47UH		R3109	1-246-473-00	CARBON 1K 5% 1/4W	
L3105	1-408-160-00	MICRO INDUCTOR 15MMH		R3110	1-246-473-00	CARBON 1K 5% 1/4W	
L3106	1-407-695-00	MICRO INDUCTOR 15UH		R3111	1-246-461-00	CARBON 330 5% 1/4W	
L3107	1-407-695-00	MICRO INDUCTOR 15UH		R3112	1-246-519-00	CARBON 82K 5% 1/4W	
L3108	1-407-704-00	MICRO INDUCTOR 82UH		R3113	1-246-497-00	CARBON 10K 5% 1/4W	
L3109	1-407-704-00	MICRO INDUCTOR 82UH		R3114	1-246-483-00	CARBON 2.7K 5% 1/4W	
L3110	1-407-704-00	MICRO INDUCTOR 82UH		R3115	1-246-517-00	CARBON 68K 5% 1/4W	
L3111	1-407-189-XX	MICRO INDUCTOR 8.2UH		R3116	1-246-491-00	CARBON 5.6K 5% 1/4W	
				R3117	1-246-505-00	CARBON 22K 5% 1/4W	
				R3118	1-246-501-00	CARBON 15K 5% 1/4W	
				R3119	1-246-501-00	CARBON 15K 5% 1/4W	
				R3120	1-246-499-00	CARBON 12K 5% 1/4W	

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

ark

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R3121	1-246-503-00	CARBON	18K 5% 1/4W	R3174	1-246-489-00	CARBON	4.7K 5% 1/4W
R3122	1-246-483-00	CARBON	2.7K 5% 1/4W	R3175	1-246-477-00	CARBON	1.5K 5% 1/4W
R3123	1-246-493-00	CARBON	6.8K 5% 1/4W	R3176	1-246-481-00	CARBON	2.2K 5% 1/4W
R3124	1-246-489-00	CARBON	4.7K 5% 1/4W	R3177	1-246-515-00	CARBON	56K 5% 1/4W
R3125	1-246-461-00	CARBON	330 5% 1/4W	R3178	1-246-499-00	CARBON	12K 5% 1/4W
R3126	1-246-471-00	CARBON	820 5% 1/4W	R3179	1-246-455-00	CARBON	180 5% 1/4W
R3127	1-246-446-00	CARBON	75 5% 1/4W	R3180	1-246-513-00	CARBON	47K 5% 1/4W
R3128	1-246-477-00	CARBON	1.5K 5% 1/4W	R3181	1-246-487-00	CARBON	3.9K 5% 1/4W
R3129	1-246-503-00	CARBON	18K 5% 1/4W	R3182	1-246-483-00	CARBON	2.7K 5% 1/4W
R3130	1-246-473-00	CARBON	1K 5% 1/4W	R3183	1-246-485-00	CARBON	3.3K 5% 1/4W
R3131	1-246-497-00	CARBON	10K 5% 1/4W	R3184	1-246-485-00	CARBON	3.3K 5% 1/4W
R3132	1-246-501-00	CARBON	15K 5% 1/4W	R3185	1-246-537-00	CARBON	470K 5% 1/4W
R3133	1-246-521-00	CARBON	100K 5% 1/4W	R3186	1-246-483-00	CARBON	2.7K 5% 1/4W
R3134	1-246-463-00	CARBON	390 5% 1/4W	R3187	1-246-463-00	CARBON	390 5% 1/4W
R3135	1-246-465-00	CARBON	470 5% 1/4W	R3188	1-246-463-00	CARBON	390 5% 1/4W
R3136	1-246-459-00	CARBON	270 5% 1/4W	R3189	1-246-457-00	CARBON	220 5% 1/4W
R3137	1-246-501-00	CARBON	15K 5% 1/4W	R3190	1-246-425-00	CARBON	10 5% 1/4W
R3138	1-246-485-00	CARBON	3.3K 5% 1/4W	R3191	1-246-479-00	CARBON	1.8K 5% 1/4W
R3139	1-246-497-00	CARBON	10K 5% 1/4W	R3192	1-246-507-00	CARBON	27K 5% 1/4W
R3140	1-246-497-00	CARBON	10K 5% 1/4W	R3193	1-246-504-00	CARBON	20K 5% 1/4W
R3141	1-246-497-00	CARBON	10K 5% 1/4W	R3194	1-246-473-00	CARBON	1K 5% 1/4W
R3142	1-246-497-00	CARBON	10K 5% 1/4W	R3195	1-246-477-00	CARBON	1.5K 5% 1/4W
R3143	1-246-481-00	CARBON	2.2K 5% 1/4W	R3196	1-246-517-00	CARBON	68K 5% 1/4W
R3144	1-246-481-00	CARBON	2.2K 5% 1/4W	R3197	1-246-473-00	CARBON	1K 5% 1/4W
R3145	1-246-449-00	CARBON	100 5% 1/4W	R3198	1-246-473-00	CARBON	1K 5% 1/4W
R3146	1-246-477-00	CARBON	1.5K 5% 1/4W	R3199	1-246-509-00	CARBON	33K 5% 1/4W
R3147	1-246-477-00	CARBON	1.5K 5% 1/4W	R3200	1-246-463-00	CARBON	390 5% 1/4W
R3148	1-246-487-00	CARBON	3.9K 5% 1/4W	R3201	1-246-463-00	CARBON	390 5% 1/4W
R3149	1-246-491-00	CARBON	5.6K 5% 1/4W	R3202	1-246-477-00	CARBON	1.5K 5% 1/4W
R3150	1-246-479-00	CARBON	1.8K 5% 1/4W	R3203	1-246-469-00	CARBON	680 5% 1/4W
R3151	1-246-475-00	CARBON	1.2K 5% 1/4W	R3204	1-246-481-00	CARBON	2.2K 5% 1/4W
R3152	1-246-508-00	CARBON	30K 5% 1/4W	R3205	1-246-477-00	CARBON	1.5K 5% 1/4W
R3153	1-246-505-00	CARBON	22K 5% 1/4W	R3206	1-246-459-00	CARBON	270 5% 1/4W
R3154	1-246-485-00	CARBON	3.3K 5% 1/4W	R3207	1-246-479-00	CARBON	1.8K 5% 1/4W
R3155	1-246-485-00	CARBON	3.3K 5% 1/4W	R3208	1-206-475-00	METAL	33 5% 2W F
R3156	1-246-505-00	CARBON	22K 5% 1/4W	R3209	1-246-477-00	CARBON	1.5K 5% 1/4W
R3157	1-246-495-00	CARBON	8.2K 5% 1/4W	R3210	1-246-517-00	CARBON	68K 5% 1/4W
R3158	1-246-485-00	CARBON	3.3K 5% 1/4W	R3211	1-246-497-00	CARBON	10K 5% 1/4W
R3159	1-246-467-00	CARBON	560 5% 1/4W	R3212	1-246-519-00	CARBON	82K 5% 1/4W
R3160	1-246-505-00	CARBON	22K 5% 1/4W	R3213	1-246-503-00	CARBON	18K 5% 1/4W
R3161	1-246-505-00	CARBON	22K 5% 1/4W	R3214	1-246-497-00	CARBON	10K 5% 1/4W
R3162	1-246-473-00	CARBON	1K 5% 1/4W	R3215	1-246-497-00	CARBON	10K 5% 1/4W
R3163	1-246-459-00	CARBON	270 5% 1/4W	R3216	1-246-477-00	CARBON	1.5K 5% 1/4W
R3164	1-246-463-00	CARBON	390 5% 1/4W	R3217	1-246-477-00	CARBON	1.5K 5% 1/4W
R3165	1-246-467-00	CARBON	560 5% 1/4W	R3218	1-246-517-00	CARBON	68K 5% 1/4W
R3166	1-246-491-00	CARBON	5.6K 5% 1/4W	R3219	1-246-477-00	CARBON	1.5K 5% 1/4W
R3167	1-246-463-00	CARBON	390 5% 1/4W	R3220	1-246-425-00	CARBON	10 5% 1/4W
R3168	1-246-447-00	CARBON	82 5% 1/4W	R3221	1-246-473-00	CARBON	1K 5% 1/4W
R3169	1-246-463-00	CARBON	390 5% 1/4W	R3222	1-246-417-00	CARBON	4.7 5% 1/4W
R3170	1-246-485-00	CARBON	3.3K 5% 1/4W	R3223	1-246-417-00	CARBON	4.7 5% 1/4W
R3171	1-246-505-00	CARBON	22K 5% 1/4W	R3224	1-246-457-00	CARBON	220 5% 1/4W
R3172	1-246-505-00	CARBON	22K 5% 1/4W	R3225	1-246-449-00	CARBON	100 5% 1/4W
R3173	1-246-489-00	CARBON	4.7K 5% 1/4W	R3226	1-246-481-00	CARBON	2.2K 5% 1/4W

## NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ F

## RESISTORS

• All resistors are in ohms  
• F : nonflammable

## COILS

• MMH : mH, UH :  $\mu$ H



Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R3227	1-246-473-00	CARBON	1K 5% 1/4W	<u>CAPACITOR</u>			
R3228	1-246-495-00	CARBON	8.2K 5% 1/4W	C601	▲.1-130-087-00	FILM 0.1MF 20% 300V	
R3229	1-246-467-00	CARBON	560 5% 1/4W	C602	▲.1-161-734-00	CERAMIC 0.0022MF 20% 400V	
R3230	1-246-457-00	CARBON	220 5% 1/4W	C603	▲.1-161-734-00	CERAMIC 0.0022MF 20% 400V	
R3231	1-246-449-00	CARBON	100 5% 1/4W	C604	▲.1-130-087-00	FILM 0.1MF 20% 300V	
R3232	1-246-481-00	CARBON	2.2K 5% 1/4W	C605	▲.1-161-734-00	CERAMIC 0.0022MF 20% 400V	
R3233	1-246-473-00	CARBON	1K 5% 1/4W	C606	▲.1-161-734-00	CERAMIC 0.0022MF 20% 400V	
R3234	1-246-495-00	CARBON	8.2K 5% 1/4W	C607	▲.1-161-734-00	CERAMIC 0.0022MF 20% 400V	
R3235	1-246-467-00	CARBON	560 5% 1/4W	C608	▲.1-161-734-00	CERAMIC 0.0022MF 20% 400V	
R3236	1-246-457-00	CARBON	220 5% 1/4W	C609	▲.1-130-087-00	FILM 0.1MF 20% 300V	
R3237	1-246-449-00	CARBON	100 5% 1/4W	C610	▲.1-161-734-00	CERAMIC 0.0022MF 20% 400V	
R3238	1-246-481-00	CARBON	2.2K 5% 1/4W	C611	▲.1-161-734-00	CERAMIC 0.0022MF 20% 400V	
R3239	1-246-473-00	CARBON	1K 5% 1/4W	<u>FUSE</u>			
R3240	1-246-495-00	CARBON	8.2K 5% 1/4W	F601	▲.1-532-350-00	TIME-LAG FUSE 4A	
R3241	1-246-467-00	CARBON	560 5% 1/4W	<u>CONNECTOR</u>			
R3242	1-212-360-00	METAL	1 5% 1W F	FA-1	▲.1-506-348-XX	3P PLUG (L)	
R3243	1-246-485-00	CARBON	3.3K 5% 1/4W	FA-2	▲.1-506-347-21	4P PLUG	
R3244	1-246-473-00	CARBON	1K 5% 1/4W	<u>TRANSFORMER</u>			
R3245	1-246-473-00	CARBON	1K 5% 1/4W	T601	▲.1-421-372-00	TRANSFORMER, FERRITE (LFT)	
R3446	1-246-447-00	CARBON	82 5% 1/4W	T602	▲.1-421-372-00	TRANSFORMER, FERRITE (LFT)	
R3447	1-246-467-00	CARBON	560 5% 1/4W	T603	▲.1-421-372-00	TRANSFORMER, FERRITE (LFT)	
				T604	▲.1-421-372-00	TRANSFORMER, FERRITE (LFT)	
<u>VARIABLE RESISTOR</u>				*****			
RV3101	1-224-643-XX	RES, ADJ, CARBON 2.2K		▲.1-604-597-00	FB BOARD		
RV3102	1-224-644-XX	RES, ADJ, CARBON 3.3K			*****		
RV3103	1-224-645-XX	RES, ADJ, CARBON 10K		▲.1-533-087-00	HOLDER, FUSE		
RV3104	1-221-970-XX	RES, ADJ, CARBON 500		<u>CAPACITOR</u>			
RV3105	1-221-970-XX	RES, ADJ, CARBON 500		C621	1-102-189-00	CERAMIC 0.0047MF 125V	
RV3106	1-221-970-XX	RES, ADJ, CARBON 500		C622	1-102-189-00	CERAMIC 0.0047MF 125V	
<u>TRANSFORMER</u>				C623	1-102-189-00	CERAMIC 0.0047MF 125V	
T3101	1-409-193-00	COIL 3.58MHZ TRAP		C624	1-102-189-00	CERAMIC 0.0047MF 125V	
T3102	1-409-193-00	COIL 3.58MHZ TRAP		C625	1-125-186-00	ELECT(BLOCK) 560MF 200V	
T3103	1-425-927-00	TRANSFORMER, BANDPASS (BPT)		C626	1-121-757-00	ELECT 33MF 160V	
T3104	1-425-928-00	TRANSFORMER, DELAY ADJUSTING		C627	1-102-030-00	CERAMIC 330PF 10% 500V	
T3106	1-405-733-00	COIL, OSCILLATOR, APC		C628	1-121-999-00	ELECT 10MF 160V	
T3107	1-425-928-00	TRANSFORMER, DELAY ADJUSTING		C629	1-123-361-00	ELECT 220MF 20% 50V	
T3108	1-407-573-00	COIL, VARIABLE 47MH		C630	1-123-381-00	ELECT 2.2MF 20% 50V	
T3109	1-407-573-00	COIL, VARIABLE 47MH		C631	1-123-381-00	ELECT 2.2MF 20% 50V	
T3110	1-404-146-00	TRANSFORMER		C632	1-123-329-00	ELECT 10MF 20% 25V	
				C633	1-123-333-00	ELECT 100MF 20% 16V	
<u>CRYSTAL</u>				<u>DIODE</u>			
X3101	1-527-345-00	CRYSTAL, OSC		D621	=>8-719-911-55	DIODE U05G	
*****				D622	=>8-719-911-55	DIODE U05G	
▲.1-604-596-00	FA BOARD			D623	=>8-719-911-55	DIODE U05G	
	*****			D624	=>8-719-911-55	DIODE U05G	
▲.1-508-799-00	BASE POST (U TYPE)						
▲.1-533-087-00	HOLDER, FUSE						

## NOTE:

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark
D625	=>8-719-200-02	DIODE 10E2	
D626	=>8-719-200-02	DIODE 10E2	
D627	=>8-719-200-02	DIODE 10E2	
D628	=>8-719-930-12	DIODE EQB01-12	

#### FUSE

F621 A 1-532-259-00 TIME-LAG FUSE 1.6A

#### CONNECTOR

FB1	♣:1-506-347-21	4P PLUG
FB2	♣:1-506-348-XX	3P PLUG (L)
FB3	♣:1-506-371-00	2P PLUG (L)
FB4	♣:1-506-347-21	4P PLUG
FB5	♣:1-506-348-XX	3P PLUG (L)
FB6	♣:1-508-786-00	2P PLUG (M)
FB7	♣:1-508-765-00	3P PLUG (M)

#### IC

IC601A 1-231-443-00 MODUL, POWER

#### COIL

L621 1-407-365-00 COIL, CHOKE 0.7UH

#### TRANSISTOR

Q621	8-762-111-00	TRANSISTOR 2SC1670
Q622	=>8-729-663-47	TRANSISTOR 2SC1364
Q623	=>8-729-663-47	TRANSISTOR 2SC1364
Q624	=>8-729-177-43	TRANSISTOR 2SD774

#### RESISTOR

R621	1-205-589-00	CEMENT-COATED	1.8	10%	10W	
R622	1-214-599-00	METAL	68K	5%	1W	F
R623	1-205-588-00	CEMENT-COATED	4.7	10%	7W	
R624	1-246-991-00	CARBON	150	5%	1/8W	F
R625	1-212-724-00	METAL	820K	1%	1/2W	
R626	1-206-688-00	METAL	10K	5%	2W	F
R627	1-213-161-00	METAL	33K	5%	1W	F
R628	1-246-521-00	CARBON	100K	5%	1/4W	
R629	1-246-497-00	CARBON	10K	5%	1/4W	
R630	1-246-499-00	CARBON	12K	5%	1/4W	
R631	1-246-499-00	CARBON	12K	5%	1/4W	
R632	1-246-473-00	CARBON	1K	5%	1/4W	
R633	1-246-485-00	CARBON	3.3K	5%	1/4W	

#### RELAY

RL621 1-515-265-00 RELAY

#### POST PIN

TP621	1-536-354-00	POST PIN
TP622	1-536-354-00	POST PIN
TP623	1-536-354-00	POST PIN

#### NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

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• Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C215	1-161-280-00	CERAMIC 12PF	5% 50V	C324	1-123-329-00	ELECT 10MF	20% 25V
C216	1-102-529-00	CERAMIC 100PF	5% 50V	C325	1-123-329-00	ELECT 10MF	20% 25V
C217	1-123-356-00	ELECT 10MF	20% 16V	C326	1-102-824-00	CERAMIC 430PF	5% 50V
C218	1-161-047-00	CERAMIC 0.0047MF	30% 50V	C327	1-101-361-00	CERAMIC 150PF	5% 50V
C219	1-161-263-00	CERAMIC 22PF	5% 50V	C328	1-108-375-00	MYLAR 0.0068MF	10% 100V
C220	1-161-047-00	CERAMIC 0.0047MF	30% 50V	C329	1-123-381-00	ELECT 2.2MF	20% 50V
C221	1-161-047-00	CERAMIC 0.0047MF	30% 50V	C330	1-108-389-00	MYLAR 0.1MF	10% 100V
C222	1-161-047-00	CERAMIC 0.0047MF	30% 50V	C331	1-123-349-00	ELECT 1000MF	20% 35V
C223	1-161-047-00	CERAMIC 0.0047MF	30% 50V	C332	1-123-357-00	ELECT 22MF	20% 50V
C224	1-161-047-00	CERAMIC 0.0047MF	30% 50V	C333	1-125-193-00	ELECT(BLOCK) 4700MF	35V
C225	1-161-259-00	CERAMIC 10PF	5% 50V	C341	1-123-333-00	ELECT 100MF	20% 16V
C226	1-161-047-00	CERAMIC 0.0047MF	30% 50V	C342	1-161-272-00	CERAMIC 120PF	5% 50V
C227	1-102-852-00	CERAMIC 47PF	5% 50V	<b>FILTER</b>			
C228	1-102-525-00	CERAMIC 68PF	5% 50V	CF201	1-527-263-00	CERAMIC FILTER (5.5MHZ)	
C229	1-161-249-00	CERAMIC 1.5PF	20% 50V	CF202	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
C230	1-161-047-00	CERAMIC 0.0047MF	30% 50V	CF203	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
C231	1-101-006-00	CERAMIC 0.047MF	50V	<b>DIODE</b>			
C232	1-161-051-00	CERAMIC 0.01MF	30% 25V	D201	=>8-719-911-19	DIODE 1SS119	
C233	1-123-328-00	ELECT 4.7MF	20% 25V	D301	=>8-719-911-19	DIODE 1SS119	
C234	1-103-725-00	POLYSTYRENE 0.001MF	5% 50V	D302	=>8-719-911-19	DIODE 1SS119	
C236	1-101-006-00	CERAMIC 0.047MF	50V	D303	=>8-719-911-19	DIODE 1SS119	
C238	1-108-365-00	MYLAR 0.001MF	10% 100V	D304	=>8-719-911-19	DIODE 1SS119	
C240	1-123-332-00	ELECT 47MF	20% 16V	D305	=>8-719-911-19	DIODE 1SS119	
C241	1-123-321-00	ELECT 220MF	20% 16V	D306	=>8-719-200-02	DIODE 10E2	
C242	1-161-047-00	CERAMIC 0.0047MF	30% 50V	D307	=>8-719-911-55	DIODE U05G	
C243	1-161-047-00	CERAMIC 0.0047MF	30% 50V	D308	=>8-719-911-55	DIODE U05G	
C257	1-123-333-00	ELECT 100MF	20% 16V	D309	=>8-719-911-55	DIODE U05G	
C260	1-161-047-00	CERAMIC 0.0047MF	30% 50V	D310	=>8-719-911-55	DIODE U05G	
C262	1-108-385-00	MYLAR 0.047MF	10% 100V	D311	=>8-719-911-19	DIODE 1SS119	
C269	1-123-323-00	ELECT 470MF	20% 16V	<b>FUSE</b>			
C301	1-123-380-00	ELECT 1MF	20% 50V	F301	1-532-285-00	TIME-LAG FUSE	
C302	1-123-379-00	ELECT 0.47MF	20% 50V	<b>IC</b>			
C303	1-123-331-00	ELECT 33MF	20% 25V	IC201	8-759-014-40	IC TBA1440G	
C304	1-123-379-00	ELECT 0.47MF	20% 50V	IC202	8-759-651-35	IC M5135P	
C305	1-123-380-00	ELECT 1MF	20% 50V	IC203	8-759-001-20	IC TBA120UB	
C306	1-108-379-00	MYLAR 0.015MF	10% 100V	IC301	8-759-272-10	IC TA7210P	
C307	1-108-393-00	MYLAR 0.22MF	10% 100V	<b>JACK</b>			
C308	1-102-820-00	CERAMIC 330PF	5% 50V	J201	1-526-575-00	SOCKET, PLUG	
C309	1-102-971-00	CERAMIC 82PF	5% 50V	<b>COIL</b>			
C310	1-102-973-00	CERAMIC 100PF	5% 50V	L203	1-407-687-00	MICRO INDUCTOR 3.3UH	
C311	1-102-980-00	CERAMIC 270PF	5% 50V	L204	1-407-687-00	MICRO INDUCTOR 3.3UH	
C312	1-102-824-00	CERAMIC 430PF	5% 50V	L205	1-407-695-00	MICRO INDUCTOR 15UH	
C313	1-123-252-00	ELECT 1MF	160V	L206	1-407-693-00	MICRO INDUCTOR 10UH	
C314	1-108-381-00	MYLAR 0.022MF	10% 100V	L207	1-407-695-00	MICRO INDUCTOR 15UH	
C315	1-108-381-00	MYLAR 0.022MF	10% 100V	L301	1-407-488-00	MICRO INDUCTOR 470UH	
C316	1-108-369-00	MYLAR 0.0022MF	10% 100V				
C317	1-108-377-00	MYLAR 0.01MF	10% 100V				
C318	1-102-824-00	CERAMIC 430PF	5% 50V				
C319	1-123-333-00	ELECT 100MF	20% 16V				
C320	1-102-816-00	CERAMIC 120PF	5% 50V				
C321	1-108-365-00	MYLAR 0.001MF	10% 100V				
C322	1-123-380-00	ELECT 1MF	20% 50V				
C323	1-108-369-00	MYLAR 0.0022MF	10% 100V				

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "  $\Delta$  " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

## RESISTORS

• All resistors are in ohms  
• F : nonflammable

## COILS

• MMH : mH, UH :  $\mu$ H

mark

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<u>TRANSISTOR</u>				R231	1-246-449-00	CARBON 100 5% 1/4W	
Q202 =>8-725-800-00	TRANSISTOR	2SC1128		R232	1-246-461-00	CARBON 330 5% 1/4W	
Q203 =>8-729-663-47	TRANSISTOR	2SC1364		R233	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q204 =>8-729-663-47	TRANSISTOR	2SC1364		R249	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q205 =>8-729-663-47	TRANSISTOR	2SC1364		R251	1-246-449-00	CARBON 100 5% 1/4W	
Q207 =>8-729-109-53	TRANSISTOR	2SD795A		R253	1-246-473-00	CARBON 1K 5% 1/4W	
Q301 8-729-663-47	TRANSISTOR	2SC1364		R254	1-246-449-00	CARBON 100 5% 1/4W	
Q302 8-729-663-47	TRANSISTOR	2SC1364		R260	1-211-427-00	CARBON 100 5% 1/8W	F
Q303 8-729-663-47	TRANSISTOR	2SC1364		R264	1-246-469-00	CARBON 680 5% 1/4W	
Q304 8-729-663-47	TRANSISTOR	2SC1364		R301	1-246-509-00	CARBON 33K 5% 1/4W	
Q305 8-729-663-47	TRANSISTOR	2SC1364		R302	1-246-497-00	CARBON 10K 5% 1/4W	
Q306 =>8-729-612-77	TRANSISTOR	2SA1027R		R303	1-246-495-00	CARBON 8.2K 5% 1/4W	
Q307 =>8-729-663-47	TRANSISTOR	2SC1364		R304	1-246-467-00	CARBON 560 5% 1/4W	
Q308 =>8-729-612-77	TRANSISTOR	2SA1027R		R305	1-246-473-00	CARBON 1K 5% 1/4W	
Q309 8-729-663-47	TRANSISTOR	2SC1364		R306	1-246-483-00	CARBON 2.7K 5% 1/4W	
Q310 8-729-663-47	TRANSISTOR	2SC1364		R307	1-246-469-00	CARBON 680 5% 1/4W	
Q311 8-729-663-47	TRANSISTOR	2SC1364		R308	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q312 8-729-663-47	TRANSISTOR	2SC1364		R309	1-246-505-00	CARBON 22K 5% 1/4W	
Q313 8-729-663-47	TRANSISTOR	2SC1364		R310	1-246-497-00	CARBON 10K 5% 1/4W	
Q314 8-729-663-47	TRANSISTOR	2SC1364		R311	1-246-449-00	CARBON 100 5% 1/4W	
Q315 8-729-663-47	TRANSISTOR	2SC1364		R312	1-246-501-00	CARBON 15K 5% 1/4W	
Q316 8-729-663-47	TRANSISTOR	2SC1364		R313	1-246-501-00	CARBON 15K 5% 1/4W	
Q317 8-729-663-47	TRANSISTOR	2SC1364		R314	1-246-508-00	CARBON 30K 5% 1/4W	
Q318 8-729-663-47	TRANSISTOR	2SC1364		R315	1-246-497-00	CARBON 10K 5% 1/4W	
Q319 =>8-729-612-77	TRANSISTOR	2SA1027R		R316	1-246-479-00	CARBON 1.8K 5% 1/4W	
<u>RESISTOR</u>				R317	1-246-471-00	CARBON 820 5% 1/4W	
R200 1-246-473-00	CARBON	1K 5% 1/4W		R318	1-246-503-00	CARBON 18K 5% 1/4W	
R201 1-246-446-00	CARBON	75 5% 1/4W		R319	1-246-489-00	CARBON 4.7K 5% 1/4W	
R204 1-246-489-00	CARBON	4.7K 5% 1/4W		R320	1-246-513-00	CARBON 47K 5% 1/4W	
R205 1-246-487-00	CARBON	3.9K 5% 1/4W		R321	1-246-497-00	CARBON 10K 5% 1/4W	
R210 1-246-475-00	CARBON	1.2K 5% 1/4W		R322	1-246-501-00	CARBON 15K 5% 1/4W	
R211 1-246-457-00	CARBON	220 5% 1/4W		R323	1-246-513-00	CARBON 47K 5% 1/4W	
R212 1-246-497-00	CARBON	10K 5% 1/4W		R324	1-246-537-00	CARBON 470K 5% 1/4W	
R213 1-246-495-00	CARBON	8.2K 5% 1/4W		R325	1-246-473-00	CARBON 1K 5% 1/4W	
R214 1-246-517-00	CARBON	68K 5% 1/4W		R326	1-246-479-00	CARBON 1.8K 5% 1/4W	
R215 1-246-529-00	CARBON	220K 5% 1/4W		R327	1-246-473-00	CARBON 1K 5% 1/4W	
R216 1-246-481-00	CARBON	2.2K 5% 1/4W		R328	1-246-497-00	CARBON 10K 5% 1/4W	
R217 1-246-457-00	CARBON	220 5% 1/4W		R329	1-246-509-00	CARBON 33K 5% 1/4W	
R218 1-246-457-00	CARBON	220 5% 1/4W		R330	1-246-521-00	CARBON 100K 5% 1/4W	
R219 1-246-471-00	CARBON	820 5% 1/4W		R331	1-246-473-00	CARBON 1K 5% 1/4W	
R220 1-246-489-00	CARBON	4.7K 5% 1/4W		R332	1-246-489-00	CARBON 4.7K 5% 1/4W	
R221 1-246-468-00	CARBON	620 5% 1/4W		R333	1-246-521-00	CARBON 100K 5% 1/4W	
R222 1-246-473-00	CARBON	1K 5% 1/4W		R334	1-246-529-00	CARBON 220K 5% 1/4W	
R223 1-246-473-00	CARBON	1K 5% 1/4W		R335	1-246-489-00	CARBON 4.7K 5% 1/4W	
R224 1-246-489-00	CARBON	4.7K 5% 1/4W		R336	1-246-489-00	CARBON 4.7K 5% 1/4W	
R225 1-246-491-00	CARBON	5.6K 5% 1/4W		R337	1-246-489-00	CARBON 4.7K 5% 1/4W	
R226 1-246-471-00	CARBON	820 5% 1/4W		R338	1-246-489-00	CARBON 4.7K 5% 1/4W	
R227 1-246-489-00	CARBON	4.7K 5% 1/4W		R339	1-246-509-00	CARBON 33K 5% 1/4W	
R228 1-246-463-00	CARBON	390 5% 1/4W		R340	1-246-505-00	CARBON 22K 5% 1/4W	
R229 1-246-471-00	CARBON	820 5% 1/4W		R341	1-246-473-00	CARBON 1K 5% 1/4W	
R230 1-246-505-00	CARBON	22K 5% 1/4W		R342	1-246-529-00	CARBON 220K 5% 1/4W	
				R343	1-246-519-00	CARBON 82K 5% 1/4W	
				R344	1-246-533-00	CARBON 330K 5% 1/4W	

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• Items marked "•" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R345	1-246-493-00	CARBON	6.8K 5% 1/4W	⚡:4-336-404-00	CASE (UPPER), SHIELD, M		
R346	1-246-515-00	CARBON	56K 5% 1/4W	⚡:4-336-405-00	CASE (MAIN), SHIELD, M		
R347	1-246-531-00	CARBON	270K 5% 1/4W				
R348	1-246-497-00	CARBON	10K 5% 1/4W				
R349	1-246-479-00	CARBON	1.8K 5% 1/4W				
					CAPACITOR		
R350	1-246-469-00	CARBON	680 5% 1/4W	C001	1-123-380-00	ELECT	1MF 20% 50V
R351	1-246-473-00	CARBON	1K 5% 1/4W	C002	1-123-380-00	ELECT	1MF 20% 50V
R352	1-246-469-00	CARBON	680 5% 1/4W	C003	1-161-313-00	CERAMIC	150PF 10% 50V
R353	1-246-449-00	CARBON	100 5% 1/4W	C004	1-161-313-00	CERAMIC	150PF 10% 50V
R354	1-246-512-00	CARBON	43K 5% 1/4W	C005	1-123-382-00	ELECT	3.3MF 20% 50V
R355	1-246-481-00	CARBON	2.2K 5% 1/4W	C006	1-123-356-00	ELECT	10MF 20% 16V
R357	1-246-497-00	CARBON	10K 5% 1/4W	C007	1-108-425-00	MYLAR	0.022MF 20% 200V
R358	1-246-521-00	CARBON	100K 5% 1/4W	C008	1-161-265-00	CERAMIC	33PF 5% 50V
R359	1-246-521-00	CARBON	100K 5% 1/4W	C009	1-123-021-00	ELECT	0.47MF 30% 50V
R360	1-246-497-00	CARBON	10K 5% 1/4W	C010	1-161-271-00	CERAMIC	100PF 5% 50V
R361	1-246-449-00	CARBON	100 5% 1/4W	C011	1-161-268-00	CERAMIC	56PF 5% 50V
R362	1-246-521-00	CARBON	100K 5% 1/4W	C012	1-123-382-00	ELECT	3.3MF 20% 50V
R363	1-246-501-00	CARBON	15K 5% 1/4W	C014	1-123-159-00	ELECT	1MF 20% 50V
R364	1-212-356-00	METAL	0.47 5% 1W F	C015	1-108-595-00	MYLAR	0.047MF 5% 50V
R365	1-246-405-00	CARBON	1.5 5% 1/4W	C016	1-161-051-00	CERAMIC	0.01MF 30% 25V
R366	1-213-154-00	METAL	8.2K 5% 1W F	C017	1-161-316-00	CERAMIC	270PF 10% 50V
R367	1-246-513-00	CARBON	47K 5% 1/4W	C018	1-123-381-00	ELECT	2.2MF 20% 50V
R368	1-246-493-00	CARBON	6.8K 5% 1/4W	C019	1-108-393-00	MYLAR	0.22MF 10% 100V
R370	1-246-515-00	CARBON	56K 5% 1/4W	C020	1-161-377-00	CERAMIC	0.0047MF 20% 50V
R371	1-246-473-00	CARBON	1K 5% 1/4W	C021	1-102-973-00	CERAMIC	100PF 5% 50V
				C022	1-161-323-00	CERAMIC	0.001MF 10% 50V
				C023	1-123-380-00	ELECT	1MF 20% 50V
				C024	1-108-389-00	MYLAR	0.1MF 10% 100V
				C025	1-161-323-00	CERAMIC	0.001MF 10% 50V
				C027	1-108-365-00	MYLAR	0.001MF 10% 100V
				C028	1-161-319-00	CERAMIC	470PF 10% 50V
				C029	1-161-319-00	CERAMIC	470PF 10% 50V
				C030	1-123-380-00	ELECT	1MF 20% 50V
				C032	1-123-379-00	ELECT	0.47MF 20% 50V
				C034	1-123-318-00	ELECT	33MF 20% 16V
				C035	1-123-379-00	ELECT	0.47MF 20% 50V
				C037	1-123-330-00	ELECT	22MF 20% 16V
				C039	1-123-380-00	ELECT	1MF 20% 50V
				C040	1-123-356-00	ELECT	10MF 20% 16V
				C041	1-123-356-00	ELECT	10MF 20% 16V
				C042	1-108-377-00	MYLAR	0.01MF 10% 100V
				C043	1-123-382-00	ELECT	3.3MF 20% 50V
				C044	1-123-379-00	ELECT	0.47MF 20% 50V
					FILTER		
				CF001	1-527-476-00	OSCILLATOR, CERAMIC	
					DIODE		
				D001	=>8-719-911-19	DIODE 1SS119	
				D002	=>8-719-911-19	DIODE 1SS119	
				D003	=>8-719-911-19	DIODE 1SS119	
				D004	=>8-719-911-19	DIODE 1SS119	
				D005	=>8-719-911-19	DIODE 1SS119	
		</					

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
D007	8-759-157-40	IC UPC574J		Q013	=>8-729-663-47	TRANSISTOR 2SC1364	
D008	8-719-191-07	DIODE RD9.1E-B		Q014	=>8-729-663-47	TRANSISTOR 2SC1364	
D009	=>8-719-911-19	DIODE 1SS119		Q015	=>8-729-612-77	TRANSISTOR 2SA1027R	
D010	=>8-719-911-19	DIODE 1SS119					
<u>CONNECTOR</u>				<u>RESISTOR</u>			
HB1	▲:1-508-784-00	1P PLUG		R001	1-246-477-00	CARBON 1.5K 5% 1/4W	
HB2	▲:1-508-784-00	1P PLUG		R002	1-246-513-00	CARBON 47K 5% 1/4W	
HB3	▲:1-508-784-00	1P PLUG		R003	1-246-537-00	CARBON 470K 5% 1/4W	
HB4	▲:1-508-784-00	1P PLUG		R004	1-246-505-00	CARBON 22K 5% 1/4W	
HB5	▲:1-508-786-00	2P PLUG (M)		R005	1-246-529-00	CARBON 220K 5% 1/4W	
<u>IC</u>				R006	1-246-529-00	CARBON 220K 5% 1/4W	
IC001	8-759-684-85	IC M58485P		R007	1-246-529-00	CARBON 220K 5% 1/4W	
IC002	=>8-759-140-30	IC UPD4030C		R008	1-246-529-00	CARBON 220K 5% 1/4W	
IC003	=>8-759-140-02	IC UPD4002C		R009	1-246-473-00	CARBON 1K 5% 1/4W	
IC004	8-759-140-69	IC UPD4069UBC		R010	1-246-491-00	CARBON 5.6K 5% 1/4W	
IC005	=>8-757-604-00	IC CX760D		R011	1-246-491-00	CARBON 5.6K 5% 1/4W	
IC006	8-757-611-00	IC CX761A		R012	1-246-491-00	CARBON 5.6K 5% 1/4W	
IC007	8-759-040-46	IC MC140468CP		R013	1-246-491-00	CARBON 5.6K 5% 1/4W	
IC008	8-759-140-12	IC UPD4012C		R014	1-246-499-00	CARBON 12K 5% 1/4W	
IC009	8-759-140-11	IC UPD4011C		R015	1-246-499-00	CARBON 12K 5% 1/4W	
<u>COIL</u>				R016	1-246-499-00	CARBON 12K 5% 1/4W	
L001	1-407-717-00	MICRO INDUCTOR 1MMH		R017	1-246-499-00	CARBON 12K 5% 1/4W	
L002	1-407-717-00	MICRO INDUCTOR 1MMH		R018	1-246-481-00	CARBON 2.2K 5% 1/4W	
L003	1-407-687-00	MICRO INDUCTOR 3.3UH		R019	1-246-473-00	CARBON 1K 5% 1/4W	
<u>CONNECTOR</u>				R020	1-246-513-00	CARBON 47K 5% 1/4W	
M2	▲:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R021	1-246-497-00	CARBON 10K 5% 1/4W	
M4	▲:1-508-768-00	6P PLUG		R022	1-246-497-00	CARBON 10K 5% 1/4W	
M5	▲:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R023	1-246-537-00	CARBON 470K 5% 1/4W	
M6	▲:1-508-784-00	1P PLUG		R024	1-246-507-00	CARBON 27K 5% 1/4W	
M7	▲:1-508-767-00	5P PLUG		R025	1-246-503-00	CARBON 18K 5% 1/4W	
M8	▲:1-508-765-00	3P PLUG (M)		R026	1-246-489-00	CARBON 4.7K 5% 1/4W	
M9	▲:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		R027	1-246-495-00	CARBON 8.2K 5% 1/4W	
M10	▲:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		R028	1-217-394-00	FUSIBLE 39 5% 1/4W	
M11	▲:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		R029	1-246-505-00	CARBON 22K 5% 1/4W	
M12	▲:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P		R030	1-246-505-00	CARBON 22K 5% 1/4W	
M13	▲:1-560-129-00	PLUG, CONNECTOR (2.5MM) 9P		R031	1-246-497-00	CARBON 10K 5% 1/4W	
<u>TRANSISTOR</u>				R032	1-246-505-00	CARBON 22K 5% 1/4W	
Q001	=>8-729-612-77	TRANSISTOR 2SA1027R		R033	1-246-497-00	CARBON 10K 5% 1/4W	
Q002	=>8-729-612-77	TRANSISTOR 2SA1027R		R035	1-246-501-00	CARBON 15K 5% 1/4W	
Q003	=>8-729-612-77	TRANSISTOR 2SA1027R		R036	1-246-497-00	CARBON 10K 5% 1/4W	
Q004	=>8-729-612-77	TRANSISTOR 2SA1027R		R037	1-246-497-00	CARBON 10K 5% 1/4W	
Q005	8-729-139-04	TRANSISTOR 2N3904		R038	1-246-496-00	CARBON 9.1K 5% 1/4W	
Q006	=>8-729-663-47	TRANSISTOR 2SC1364		R040	1-246-511-00	CARBON 39K 5% 1/4W	
Q007	=>8-729-663-47	TRANSISTOR 2SC1364		R042	1-246-513-00	CARBON 47K 5% 1/4W	
Q008	=>8-729-612-77	TRANSISTOR 2SA1027R		R043	1-246-505-00	CARBON 22K 5% 1/4W	
Q010	=>8-729-612-77	TRANSISTOR 2SA1027R		R044	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q011	=>8-769-200-30	TRANSISTOR 2SK107		R045	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q012	=>8-729-663-47	TRANSISTOR 2SC1364		R046	1-246-489-00	CARBON 4.7K 5% 1/4W	
				R047	1-246-505-00	CARBON 22K 5% 1/4W	
				R048	1-202-667-00	COMPOSITION 8.2M 10% 1/2W	
				R049	1-246-509-00	CARBON 33K 5% 1/4W	
				R050	1-246-535-00	CARBON 390K 5% 1/4W	
				R051	1-246-509-00	CARBON 33K 5% 1/4W	

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• MF :  $\mu$ F, PF :  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H



Ref.No	Part No	Description				Remark	Ref.No	Part No	Description				Remark
R052	1-206-698-00	METAL	27K	5%	2W	F	VARIABLE RESISTOR						
R053	1-246-497-00	CARBON	10K	5%	1/4W		RV001	1-224-645-XX	RES, ADJ, CARBON 10K				
R054	1-246-505-00	CARBON	22K	5%	1/4W		RV5451	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M				
R055	1-246-537-00	CARBON	470K	5%	1/4W		RV5452	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M				
R056	1-246-513-00	CARBON	47K	5%	1/4W		RV5453	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M				
R057	1-246-509-00	CARBON	33K	5%	1/4W		*****						
R058	1-246-529-00	CARBON	220K	5%	1/4W		♣:A-1316-013-A G BOARD, COMPLETE						
R059	1-246-473-00	CARBON	1K	5%	1/4W		*****						
R060	1-246-485-00	CARBON	3.3K	5%	1/4W		♣:1-453-088-00 DC BLOCK, HIGH-VOLTAGE						
R061	1-246-523-00	CARBON	120K	5%	1/4W		♣:1-533-087-00 HOLDER, FUSE						
R062	1-246-513-00	CARBON	47K	5%	1/4W		♣:1-555-024-00 CONNECTOR ASSY, MINIATURE 3P						
R063	1-246-481-00	CARBON	2.2K	5%	1/4W		♣:1-555-035-00 CONNECTOR ASSY, MINIATURE 3P						
R064	1-246-521-00	CARBON	100K	5%	1/4W		♣:1-555-192-00 CONNECTOR ASSY (LARGE) 4P						
R065	1-202-463-00	COMPOSITION	2.2M	5%	1/4W		CAPACITOR						
R066	1-246-473-00	CARBON	1K	5%	1/4W		C501	1-123-380-00	ELECT	1MF	20%	50V	
R067	1-246-503-00	CARBON	18K	5%	1/4W		C502	1-123-380-00	ELECT	1MF	20%	50V	
R069	1-246-523-00	CARBON	120K	5%	1/4W		C503	1-123-380-00	ELECT	1MF	20%	50V	
R070	1-246-497-00	CARBON	10K	5%	1/4W		C504	1-108-369-00	MYLAR	0.0022MF	10%	100V	
R071	1-246-543-00	CARBON	820K	5%	1/4W		C505	1-108-381-00	MYLAR	0.022MF	10%	100V	
R072	1-246-529-00	CARBON	220K	5%	1/4W		C506	1-123-380-00	ELECT	1MF	20%	50V	
R073	1-246-461-00	CARBON	330	5%	1/4W		C507	1-108-367-00	MYLAR	0.0015MF	10%	100V	
R074	1-246-497-00	CARBON	10K	5%	1/4W		C508	1-108-376-00	MYLAR	0.0082MF	10%	100V	
R075	1-246-499-00	CARBON	12K	5%	1/4W		C509	1-108-389-00	MYLAR	0.1MF	10%	100V	
R076	1-246-503-00	CARBON	18K	5%	1/4W		C510	1-108-384-00	MYLAR	0.039MF	10%	100V	
R077	1-246-489-00	CARBON	4.7K	5%	1/4W		C511	1-123-381-00	ELECT	2.2MF	20%	50V	
R078	1-246-537-00	CARBON	470K	5%	1/4W		C512	1-130-203-00	FILM	0.01MF	5%	50V	
R079	1-246-545-00	CARBON	1M	5%	1/4W		C513	1-108-373-00	MYLAR	0.0047MF	10%	100V	
R080	1-246-545-00	CARBON	1M	5%	1/4W		C514	1-123-379-00	ELECT	0.47MF	20%	50V	
R081	1-246-521-00	CARBON	100K	5%	1/4W		C515	1-123-356-00	ELECT	10MF	20%	16V	
R082	1-246-531-00	CARBON	270K	5%	1/4W		C516	1-123-321-00	ELECT	220MF	20%	16V	
R083	1-246-509-00	CARBON	33K	5%	1/4W		C517	1-108-367-00	MYLAR	0.0015MF	10%	100V	
R084	1-246-509-00	CARBON	33K	5%	1/4W		C518	1-123-333-00	ELECT	100MF	20%	16V	
R085	1-246-497-00	CARBON	10K	5%	1/4W		C519	1-108-372-00	MYLAR	0.0039MF	10%	100V	
R086	1-246-497-00	CARBON	10K	5%	1/4W		C520	1-108-383-00	MYLAR	0.033MF	10%	100V	
R087	1-246-509-00	CARBON	33K	5%	1/4W		C521	1-123-382-00	ELECT	3.3MF	20%	50V	
R088	1-246-473-00	CARBON	1K	5%	1/4W		C521	1-131-197-00	TANTALUM	3.3MF	10%	16V	
R089	1-246-505-00	CARBON	22K	5%	1/4W		C522	1-123-380-00	ELECT	1MF	20%	50V	
R090	1-246-497-00	CARBON	10K	5%	1/4W		C523	1-131-361-00	TANTALUM	2.2MF	20%	20V	
R091	1-246-537-00	CARBON	470K	5%	1/4W		C524	1-123-380-00	ELECT	1MF	20%	50V	
R092	1-246-505-00	CARBON	22K	5%	1/4W		C525	1-108-373-00	MYLAR	0.0047MF	10%	100V	
R093	1-246-473-00	CARBON	1K	5%	1/4W		C526	1-123-358-00	ELECT	33MF	20%	50V	
R094	1-246-473-00	CARBON	1K	5%	1/4W		C527	1-123-379-00	ELECT	0.47MF	20%	50V	
R095	1-246-473-00	CARBON	1K	5%	1/4W		C528	1-102-973-00	CERAMIC	100PF	5%	50V	
R096	1-246-489-00	CARBON	4.7K	5%	1/4W		C529	1-102-157-00	CERAMIC	560PF	10%	500V	
R097	1-246-497-00	CARBON	10K	5%	1/4W		C530	1-123-382-00	ELECT	3.3MF	20%	50V	
R098	1-246-485-00	CARBON	3.3K	5%	1/4W		C531	1-123-379-00	ELECT	0.47MF	20%	50V	
R099	1-246-473-00	CARBON	1K	5%	1/4W		C532	1-102-973-00	CERAMIC	100PF	5%	50V	
R100	1-246-505-00	CARBON	22K	5%	1/4W		C533	1-102-157-00	CERAMIC	560PF	10%	500V	
R5451	1-202-723-00	COMPOSITION	2.2M	5%	1/2W		C534	1-121-999-00	ELECT	10MF		160V	
R5452	1-202-723-00	COMPOSITION	2.2M	5%	1/2W		C535	1-108-389-00	MYLAR	0.1MF	10%	100V	
R5453	1-202-723-00	COMPOSITION	2.2M	5%	1/2W								
R5454	1-202-621-00	COMPOSITION	100K	5%	1/2W								

NOTE:

- The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark
C536	1-123-332-00	ELECT 47MF	20% 16V
C546	1-123-026-00	ELECT 2.2MF	160V
C547	1-102-030-00	CERAMIC 330PF	10% 500V
C548	1-123-026-00	ELECT 2.2MF	160V
C549	1-123-252-00	ELECT 1MF	160V
C550	1-108-369-00	MYLAR 0.0022MF	10% 100V
C551	1-123-356-00	ELECT 10MF	20% 16V
C552	1-123-116-00	ELECT 1MF	160V
C553	1-108-426-00	MYLAR 0.027MF	10% 200V
C554	1-123-336-00	ELECT 470MF	20% 25V
C555	1-123-336-00	ELECT 470MF	20% 25V
C556	1-123-336-00	ELECT 470MF	20% 25V
C557	1-121-757-00	ELECT 33MF	160V
C558	1-123-382-00	ELECT 3.3MF	20% 50V
C559	1-121-999-00	ELECT 10MF	160V
C560	1-121-757-00	ELECT 33MF	160V
C561	1-123-022-00	ELECT 22MF	350V
C562	1-129-918-00	FILM 0.0018MF	5% 1.5KV
C563	1-161-513-00	CERAMIC 470PF	20% 1.5KV
C564	1-101-361-00	CERAMIC 150PF	5% 50V
C565	1-123-356-00	ELECT 10MF	20% 16V
C566	1-102-976-00	CERAMIC 180PF	5% 50V
C567	1-102-971-00	CERAMIC 82PF	5% 50V
C568	1-108-365-00	MYLAR 0.001MF	10% 100V
C569	1-123-356-00	ELECT 10MF	20% 16V
C570	1-101-361-00	CERAMIC 150PF	5% 50V
C801	1-108-417-00	MYLAR 0.0047MF	10% 200V
C802	1-123-331-00	ELECT 33MF	20% 25V
C803	1-123-334-00	ELECT 220MF	20% 25V
C804	1-123-321-00	ELECT 220MF	20% 16V
C805	1-125-195-00	ELECT 4.7MF	100V
C806	1-108-546-00	MYLAR 1.5MF	10% 400V
C807	1-129-936-00	FILM 0.0075MF	5% 1.5KV
C808	1-108-546-00	MYLAR 1.5MF	10% 400V
C809	1-108-646-00	MYLAR 0.47MF	10% 100V
C810	1-108-907-00	MYLAR 2.2MF	10% 200V
C811	1-123-252-00	ELECT 1MF	160V
C812	1-108-417-00	MYLAR 0.0047MF	10% 200V
C813	1-123-252-00	ELECT 1MF	160V
C814	1-121-757-00	ELECT 33MF	160V

#### DIODE

D501	=>8-719-911-19	DIODE 1SS119
D502	8-719-156-23	DIODE RD5.6E-Z7S
D503	8-719-112-24	DIODE RD12E-B1Z
D504	=>8-719-911-19	DIODE 1SS119
D505	8-719-151-07	DIODE RD5.1E-B
D506	=>8-719-911-19	DIODE 1SS119
D510	8-719-112-77	DIODE RD12E-C
D511	=>8-719-300-76	DIODE RH1A
D512	=>8-719-200-02	DIODE 10E2
D513	8-719-301-51	DIODE S15H
D514	8-719-301-51	DIODE S15H

#### NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

#### CAPACITORS

- MF :  $\mu$ F, PF :  $\mu$ F

#### RESISTORS

- All resistors are in ohms
- F : nonflammable

#### COILS

- MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark
D516	8-719-200-02	DIODE 10E2	
D517	8-719-303-41	DIODE S34	
D518	8-719-900-95	DIODE V09G	
D519	=>8-719-200-02	DIODE 10E2	
D520	=>8-719-300-76	DIODE RH1A	
D521	=>8-719-305-15	DIODE GH3F	
D522	8-719-903-09	DIODE V30N	
D523	=>8-719-911-19	DIODE 1SS119	
D801	=>8-719-931-19	DIODE EQB01-09	
D802	=>8-719-200-02	DIODE 10E2	
D803	=>8-719-200-02	DIODE 10E2	
D804	=>8-719-911-19	DIODE 1SS119	
D805	=>8-719-911-19	DIODE 1SS119	
D806	=>8-719-305-15	DIODE GH3F	
D807	=>8-719-931-10	DIODE EQB01-10	
D808	=>8-719-200-02	DIODE 10E2	
D809	=>8-719-200-02	DIODE 10E2	
D810	=>8-719-200-02	DIODE 10E2	

#### FUSE

F501	A.1-532-259-00	TIME-LAG FUSE 1.6A
F801	A.1-532-259-00	TIME-LAG FUSE 1.6A
F802	A.1-532-279-00	TIME-LAG FUSE

#### CONNECTOR

G1	♣:1-508-766-00	4P PLUG (M)
G3	♣:1-508-786-00	2P PLUG (M)
G4	♣:1-508-766-00	4P PLUG (M)
G5	♣:1-506-348-XX	PLUG, 5P
G6	♣:1-506-348-XX	6P PLUG
G7	♣:1-506-348-XX	PLUG, 5P
G8	♣:1-508-784-00	1P PLUG
G12	♣:1-508-784-00	1P PLUG
G13	♣:1-506-348-XX	3P PLUG (L)
G14	♣:1-506-348-XX	3P PLUG (L)
G16	♣:1-506-348-XX	3P PLUG (L)
G17	♣:1-506-347-21	4P PLUG
G18	♣:1-506-371-00	2P PLUG (L)
G19	♣:1-508-784-00	1P PLUG
G20	♣:1-506-348-XX	3P PLUG (L)
G22	♣:1-506-348-XX	3P PLUG (L)
G23	♣:1-508-786-00	2P PLUG (M)
G24	♣:1-508-784-00	1P PLUG

#### IC

IC501	=>8-759-115-57	IC CX557A
IC502	1-231-416-00	MODULE, POWER
IC503	8-759-979-16	IC CX7916

#### COIL

L501	1-407-687-00	MICRO INDUCTOR 3.3UH
L502	1-407-709-00	MICRO INDUCTOR 220UH
L503	1-459-104-00	COIL, DUST CORE

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
L504	1-407-705-00	MICRO INDUCTOR 100UH		R503	1-246-541-00	CARBON 680K 5% 1/4W	
L505	1-407-705-00	MICRO INDUCTOR 100UH		R504	1-246-473-00	CARBON 1K 5% 1/4W	
L801	1-407-720-00	CHOKE COIL		R505	1-246-513-00	CARBON 47K 5% 1/4W	
L802	1-407-720-00	CHOKE COIL		R506	1-246-449-00	CARBON 100 5% 1/4W	
<u>NEON LAMP</u>				R507	1-246-481-00	CARBON 2.2K 5% 1/4W	
NL801	1-519-108-XX	LAMP, NEON ASSY		R508	1-246-513-00	CARBON 47K 5% 1/4W	
<u>CONNECTOR</u>				R509	1-246-531-00	CARBON 270K 5% 1/4W	
Q2	▲:1-508-765-00	3P PLUG (M)		R510	1-246-473-00	CARBON 1K 5% 1/4W	
Q9	▲:1-508-765-00	3P PLUG (M)		R511	1-246-523-00	CARBON 120K 5% 1/4W	
Q10	▲:1-508-765-00	3P PLUG (M)		R512	1-246-523-00	CARBON 120K 5% 1/4W	
Q11	▲:1-508-765-00	3P PLUG (M)		R513	1-246-511-00	CARBON 39K 5% 1/4W	
Q15	▲:1-508-765-00	3P PLUG (M)		R514	1-246-483-00	CARBON 2.7K 5% 1/4W	
Q21	▲:1-508-765-00	3P PLUG (M)		R515	1-246-501-00	CARBON 15K 5% 1/4W	
<u>TRANSISTOR</u>				R516	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q501	=>8-729-663-47	TRANSISTOR 2SC1364		R517	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q502	=>8-729-612-77	TRANSISTOR 2SA1027R		R518	1-246-513-00	CARBON 47K 5% 1/4W	
Q503	8-765-600-00	TRANSISTOR 2SC2593		R519	1-246-441-00	CARBON 47 5% 1/4W	
Q504	8-765-600-00	TRANSISTOR 2SC2593		R520	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q505	=>8-729-663-47	TRANSISTOR 2SC1364		R521	1-246-509-00	CARBON 33K 5% 1/4W	
Q506	=>8-729-663-47	TRANSISTOR 2SC1364		R522	1-246-501-00	CARBON 15K 5% 1/4W	
Q507	8-729-213-11	TRANSISTOR 2SC2230A		R523	1-214-146-00	METAL 3.9K 1% 1/4W	
Q508	8-729-213-11	TRANSISTOR 2SC2230A		R524	1-214-147-00	METAL 4.3K 1% 1/4W	
Q509	=>8-729-663-47	TRANSISTOR 2SC1364		R525	1-214-170-00	METAL 39K 1% 1/4W	
Q510	=>8-729-663-47	TRANSISTOR 2SC1364		R526	1-246-505-00	CARBON 22K 5% 1/4W	
Q511	=>8-729-663-47	TRANSISTOR 2SC1364		R527	1-246-505-00	CARBON 22K 5% 1/4W	
Q512	=>8-729-663-47	TRANSISTOR 2SC1364		R528	1-214-180-00	METAL 100K 1% 1/4W	
Q513	=>8-729-663-47	TRANSISTOR 2SC1364		R529	1-214-146-00	METAL 3.9K 1% 1/4W	
Q515	=>8-729-255-12	TRANSISTOR 2SD552		R530	1-214-162-00	METAL 18K 1% 1/4W	
Q516	=>8-729-177-43	TRANSISTOR 2SD774		R531	1-246-491-00	CARBON 5.6K 5% 1/4W	
Q517	=>8-729-663-47	TRANSISTOR 2SC1364		R532	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q518	=>8-729-663-47	TRANSISTOR 2SC1364		R533	1-246-453-00	CARBON 150 5% 1/4W	
Q519	=>8-729-663-47	TRANSISTOR 2SC1364		R534	1-214-116-00	METAL 220 1% 1/4W	
Q520	=>8-729-663-47	TRANSISTOR 2SC1364		R535	1-214-110-00	METAL 120 1% 1/4W	
Q521	=>8-729-663-47	TRANSISTOR 2SC1364		R536	1-246-457-00	CARBON 220 5% 1/4W	
Q522	=>8-729-663-47	TRANSISTOR 2SC1364		R537	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q523	=>8-729-663-47	TRANSISTOR 2SC1364		R538	1-246-465-00	CARBON 470 5% 1/4W	
Q524	=>8-729-663-47	TRANSISTOR 2SC1364		R539	1-246-449-00	CARBON 100 5% 1/4W	
Q801	=>8-729-663-47	TRANSISTOR 2SC1364		R540	1-246-465-00	CARBON 470 5% 1/4W	
Q802	=>8-729-663-47	TRANSISTOR 2SC1364		R541	1-211-550-00	CARBON 1.8K 5% 1/4W F	
Q803	=>8-729-612-77	TRANSISTOR 2SA1027R		R542	1-206-439-00	METAL 1 5% 2W F	
Q804	=>8-729-663-47	TRANSISTOR 2SC1364		R543	1-246-509-00	CARBON 33K 5% 1/4W	
Q805	=>8-729-663-47	TRANSISTOR 2SC1364		R544	1-246-449-00	CARBON 100 5% 1/4W	
Q806	=>8-729-255-12	TRANSISTOR 2SD552		R545	1-246-465-00	CARBON 470 5% 1/4W	
Q807	8-729-213-11	TRANSISTOR 2SC2230A		R546	1-211-550-00	CARBON 1.8K 5% 1/4W F	
Q808	8-729-213-11	TRANSISTOR 2SC2230A		R547	1-206-439-00	METAL 1 5% 2W F	
<u>RESISTOR</u>				R548	1-211-626-00	CARBON 330 5% 1/2W F	
R501	1-246-467-00	CARBON 560 5% 1/4W		R549	1-206-731-00	METAL 1.8K 5% 3W F	
R502	1-246-459-00	CARBON 270 5% 1/4W		R550	1-206-731-00	METAL 1.8K 5% 3W F	
R503	1-246-541-00	CARBON 680K 5% 1/4W		R551	1-211-626-00	CARBON 330 5% 1/2W F	
R504	1-246-473-00	CARBON 1K 5% 1/4W		R552	1-206-732-00	METAL 2K 5% 3W F	
R505	1-246-513-00	CARBON 47K 5% 1/4W		R553	1-206-732-00	METAL 2K 5% 3W F	
R506	1-246-449-00	CARBON 100 5% 1/4W		R554	1-206-732-00	METAL 2K 5% 3W F	
R507	1-246-481-00	CARBON 2.2K 5% 1/4W		R555	1-246-449-00	CARBON 100 5% 1/4W	
R508	1-246-513-00	CARBON 47K 5% 1/4W					
R509	1-246-531-00	CARBON 270K 5% 1/4W					
R510	1-246-473-00	CARBON 1K 5% 1/4W					
R511	1-246-523-00	CARBON 120K 5% 1/4W					
R512	1-246-523-00	CARBON 120K 5% 1/4W					
R513	1-246-511-00	CARBON 39K 5% 1/4W					
R514	1-246-483-00	CARBON 2.7K 5% 1/4W					
R515	1-246-501-00	CARBON 15K 5% 1/4W					
R516	1-246-481-00	CARBON 2.2K 5% 1/4W					
R517	1-246-489-00	CARBON 4.7K 5% 1/4W					
R518	1-246-513-00	CARBON 47K 5% 1/4W					
R519	1-246-441-00	CARBON 47 5% 1/4W					
R520	1-246-481-00	CARBON 2.2K 5% 1/4W					
R521	1-246-509-00	CARBON 33K 5% 1/4W					
R522	1-246-501-00	CARBON 15K 5% 1/4W					
R523	1-214-146-00	METAL 3.9K 1% 1/4W					
R524	1-214-147-00	METAL 4.3K 1% 1/4W					
R525	1-214-170-00	METAL 39K 1% 1/4W					
R526	1-246-505-00	CARBON 22K 5% 1/4W					
R527	1-246-505-00	CARBON 22K 5% 1/4W					
R528	1-214-180-00	METAL 100K 1% 1/4W					
R529	1-214-146-00	METAL 3.9K 1% 1/4W					
R530	1-214-162-00	METAL 18K 1% 1/4W					
R531	1-246-491-00	CARBON 5.6K 5% 1/4W					
R532	1-246-489-00	CARBON 4.7K 5% 1/4W					
R533	1-246-453-00	CARBON 150 5% 1/4W					
R534	1-214-116-00	METAL 220 1% 1/4W					
R535	1-214-110-00	METAL 120 1% 1/4W					
R536	1-246-457-00	CARBON 220 5% 1/4W					
R537	1-246-493-00	CARBON 6.8K 5% 1/4W					
R538	1-246-465-00	CARBON 470 5% 1/4W					
R539	1-246-449-00	CARBON 100 5% 1/4W					
R540	1-246-465-00	CARBON 470 5% 1/4W					
R541	1-211-550-00	CARBON 1.8K 5% 1/4W F					
R542	1-206-439-00	METAL 1 5% 2W F					
R543	1-246-509-00	CARBON 33K 5% 1/4W					
R544	1-246-449-00	CARBON 100 5% 1/4W					
R545	1-246-465-00	CARBON 470 5% 1/4W					
R546	1-211-550-00	CARBON 1.8K 5% 1/4W F					
R547	1-206-439-00	METAL 1 5% 2W F					
R548	1-211-626-00	CARBON 330 5% 1/2W F					
R549	1-206-731-00	METAL 1.8K 5% 3W F					
R550	1-206-731-00	METAL 1.8K 5% 3W F					
R551	1-211-626-00	CARBON 330 5% 1/2W F					
R552	1-206-732-00	METAL 2K 5% 3W F					
R553	1-206-732-00	METAL 2K 5% 3W F					
R554	1-206-732-00	METAL 2K 5% 3W F					
R555	1-246-449-00	CARBON 100 5% 1/4W					

## NOTE:

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ uF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R556	1-246-505-00	CARBON	22K 5% 1/4W	R611	1-246-473-00	CARBON	1K 5% 1/4W
R557	1-246-497-00	CARBON	10K 5% 1/4W	R612	1-246-497-00	CARBON	10K 5% 1/4W
R558	1-246-489-00	CARBON	4.7K 5% 1/4W	R613	1-246-511-00	CARBON	39K 5% 1/4W
R559	1-246-505-00	CARBON	22K 5% 1/4W	R614	1-246-473-00	CARBON	1K 5% 1/4W
R560	1-246-485-00	CARBON	3.3K 5% 1/4W	R615	1-246-467-00	CARBON	560 5% 1/4W
R561	1-246-491-00	CARBON	5.6K 5% 1/4W	R801	1-246-783-00	CARBON	1K 5% 1/8W F
R562	1-246-507-00	CARBON	27K 5% 1/4W	R802	1-214-180-00	METAL	100K 1% 1/4W
R563	1-246-497-00	CARBON	10K 5% 1/4W	✱R803	Δ	CARBON	1/4W
R564	1-246-477-00	CARBON	1.5K 5% 1/4W	✱R804	Δ	CARBON	1/4W
R565	1-246-497-00	CARBON	10K 5% 1/4W	R805	1-246-497-00	CARBON	10K 5% 1/4W
R566	1-246-513-00	CARBON	47K 5% 1/4W	R806	1-206-700-00	METAL	33K 5% 2W F
R567	1-246-499-00	CARBON	12K 5% 1/4W	R807	1-246-513-00	CARBON	47K 5% 1/4W
R568	1-246-501-00	CARBON	15K 5% 1/4W	R808	1-246-513-00	CARBON	47K 5% 1/4W
R569	1-246-489-00	CARBON	4.7K 5% 1/4W	R809	1-246-493-00	CARBON	6.8K 5% 1/4W
R570	1-246-497-00	CARBON	10K 5% 1/4W	R810	1-246-497-00	CARBON	10K 5% 1/4W
R571	1-246-511-00	CARBON	39K 5% 1/4W	R811	1-246-497-00	CARBON	10K 5% 1/4W
R572	1-246-473-00	CARBON	1K 5% 1/4W	R812	1-246-497-00	CARBON	10K 5% 1/4W
R573	1-246-528-00	CARBON	200K 5% 1/4W	R813	1-246-783-00	CARBON	1K 5% 1/8W F
R574	1-246-509-00	CARBON	33K 5% 1/4W	R814	1-214-180-00	METAL	100K 1% 1/4W
R575	1-246-463-00	CARBON	390 5% 1/4W				
R576	1-206-690-00	METAL	12K 5% 2W F				
R577	1-247-037-00	CARBON	390 5% 1/8W F				
R578	1-206-529-00	METAL	56 5% 3W F				
R579	1-212-368-00	METAL	4.7 5% 1W F				
R580	1-246-457-00	CARBON	220 5% 1/4W				
R581	1-206-692-00	METAL	15K 5% 2W F				
R582	1-206-439-00	METAL	1 5% 2W F				
R583	1-206-439-00	METAL	1 5% 2W F				
R585	1-206-439-00	METAL	1 5% 2W F				
R586	1-206-680-00	METAL	4.7K 5% 2W F				
R587	1-247-034-00	CARBON	220 5% 1/8W F				
R588	1-206-457-00	METAL	5.6 5% 2W F				
R589	1-247-021-00	CARBON	1.5 5% 1/8W F				
R591	1-213-146-00	METAL	1.8K 5% 1W F				
R592	1-246-499-00	CARBON	12K 5% 1/4W				
R593	1-246-499-00	CARBON	12K 5% 1/4W				
R594	1-246-473-00	CARBON	1K 5% 1/4W				
R595	1-246-489-00	CARBON	4.7K 5% 1/4W				
R596	1-246-477-00	CARBON	1.5K 5% 1/4W				
R597	1-246-481-00	CARBON	2.2K 5% 1/4W				
R598	1-246-499-00	CARBON	12K 5% 1/4W				
R599	1-246-493-00	CARBON	6.8K 5% 1/4W				
R600	1-246-481-00	CARBON	2.2K 5% 1/4W				
R601	1-246-485-00	CARBON	3.3K 5% 1/4W				
R602	1-246-515-00	CARBON	56K 5% 1/4W				
R603	1-246-501-00	CARBON	15K 5% 1/4W				
R604	1-246-529-00	CARBON	220K 5% 1/4W				
R605	1-246-485-00	CARBON	3.3K 5% 1/4W				
R606	1-246-485-00	CARBON	3.3K 5% 1/4W				
R607	1-246-475-00	CARBON	1.2K 5% 1/4W				
R608	1-246-475-00	CARBON	1.2K 5% 1/4W				
R609	1-246-505-00	CARBON	22K 5% 1/4W				
R610	1-246-497-00	CARBON	10K 5% 1/4W				

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "Δ" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF : μF, PF : μμF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH : μH

Ref.No	Part No	Description	Remark	
♣:A-1330-277-A	C BOARD, COMPLETE *****			
♣:1-508-765-00	3P PLUG (M)			
♣:1-508-766-00	4P PLUG (M)			
♣:1-508-784-00	1P PLUG			
♣:1-508-786-00	2P PLUG (M)			
1-526-644-00	SOCKET, CRT			
♣:1-587-474-00	PC BOARD, C			
♣:4-324-413-00	HEAT SINK, B			
<u>CAPACITOR</u>				
C701	1-123-028-00	ELECT	2.2MF	350V
C702	1-121-963-00	ELECT	33MF	20% 25V
C703	1-102-267-00	CERAMIC	0.0068MF	500V
C704	1-102-155-00	CERAMIC	330PF	20% 2KV
C706	1-102-155-00	CERAMIC	330PF	20% 2KV
<u>COIL</u>				
L701	1-407-492-00	MICRO INDUCTOR 1MMH		
L702	1-407-364-00	COIL, SPOOK CHOKE		
L703	1-407-364-00	COIL, SPOOK CHOKE		
<u>NEON LAMP</u>				
NL701	1-519-013-13	DISCHARGE TUBE		
<u>TRANSISTOR</u>				
Q701	8-729-372-31	TRANSISTOR 2SC1723		
<u>RESISTOR</u>				
R701	1-202-615-00	COMPOSITION	56K	5% 1/2W
R702	1-202-631-00	COMPOSITION	270K	5% 1/2W
R703	1-244-921-00	CARBON	100K	5% 1/2W
R704	1-244-923-00	CARBON	120K	5% 1/2W
R705	1-246-503-00	CARBON	18K	5% 1/4W
R706	1-206-753-00	METAL	15K	5% 3W F
R707	1-246-449-00	CARBON	100	5% 1/4W
R708	1-202-585-00	COMPOSITION	3.3K	5% 1/2W
R709	1-202-629-00	COMPOSITION	220K	5% 1/2W
R710	1-202-573-00	COMPOSITION	1K	5% 1/2W
R711	1-202-639-00	COMPOSITION	560K	5% 1/2W
R712	1-202-583-00	COMPOSITION	2.7K	5% 1/2W
R713	1-202-615-00	COMPOSITION	56K	5% 1/2W

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## CAPACITORS

- MF :  $\mu\text{F}$ , PF :  $\mu\mu\text{F}$

## RESISTORS

- All resistors are in ohms
- F : nonflammable

## COILS

• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
▲:A-1340-342-A DA BOARD, COMPLETE *****							
<u>CAPACITOR</u>							
C5501	1-108-389-00	MYLAR 0.1MF	10% 100V	C5551	1-123-356-00	ELECT 10MF	20% 16V
C5502	1-131-238-00	TANTALUM 10MF	10% 25V	C5552	1-123-330-00	ELECT 22MF	20% 25V
C5503	1-108-389-00	MYLAR 0.1MF	10% 100V	C5553	1-123-356-00	ELECT 10MF	20% 16V
C5504	1-131-238-00	TANTALUM 10MF	10% 25V	C5554	1-123-356-00	ELECT 10MF	20% 16V
C5505	1-131-238-00	TANTALUM 10MF	10% 25V	C5555	1-108-387-00	MYLAR 0.068MF	10% 100V
C5506	1-131-238-00	TANTALUM 10MF	10% 25V	C5556	1-123-318-00	ELECT 33MF	20% 16V
C5507	1-108-389-00	MYLAR 0.1MF	10% 100V	C5557	1-123-356-00	ELECT 10MF	20% 16V
C5508	1-108-389-00	MYLAR 0.1MF	10% 100V	C5558	1-123-356-00	ELECT 10MF	20% 16V
C5509	1-131-238-00	TANTALUM 10MF	10% 25V	<u>DIODE</u>			
C5510	1-131-238-00	TANTALUM 10MF	10% 25V	D5501	=>8-719-931-05	DIODE EQB01-05	
C5511	1-123-321-00	ELECT 220MF	20% 16V	D5502	=>8-719-931-05	DIODE EQB01-05	
C5512	1-123-252-00	ELECT 1MF	160V	D5503	=>8-719-930-12	DIODE EQB01-12Z	
C5513	1-123-321-00	ELECT 220MF	20% 16V	<u>CONNECTOR</u>			
C5514	1-123-252-00	ELECT 1MF	160V	DA1	▲:1-508-767-00	5P PLUG	
C5515	1-123-321-00	ELECT 220MF	20% 16V	DA2	▲:1-508-766-00	4P PLUG (M)	
C5516	1-123-252-00	ELECT 1MF	160V	DA3	▲:1-508-768-00	6P PLUG	
C5517	1-123-333-00	ELECT 100MF	20% 16V	DA4	▲:1-508-768-00	6P PLUG	
C5518	1-108-365-00	MYLAR 0.001MF	10% 100V	DA5	▲:1-508-768-00	6P PLUG	
C5519	1-108-389-00	MYLAR 0.1MF	10% 100V	DA6	▲:1-508-786-00	2P PLUG (M)	
C5520	1-123-333-00	ELECT 100MF	20% 16V	DA7	▲:1-506-348-XX	PLUG, 5P	
C5521	1-123-318-00	ELECT 33MF	20% 16V	DA8	▲:1-508-784-00	1P PLUG	
C5522	1-108-387-00	MYLAR 0.068MF	10% 100V	DA9	▲:1-508-765-00	3P PLUG (M)	
C5523	1-123-323-00	ELECT 470MF	20% 16V	DA10	▲:1-508-766-00	4P PLUG (M)	
C5524	1-123-323-00	ELECT 470MF	20% 16V	DA11	▲:1-508-766-00	4P PLUG (M)	
C5525	1-123-323-00	ELECT 470MF	20% 16V	<u>COIL</u>			
C5526	1-123-333-00	ELECT 100MF	20% 16V	L5501	1-407-705-00	MICRO INDUCTOR 100UH	
C5527	1-123-321-00	ELECT 220MF	20% 16V	L5502	1-408-245-00	MICRO INDUCTOR 22MMH	
C5528	1-108-369-00	MYLAR 0.0022MF	10% 100V	<u>TRANSISTOR</u>			
C5529	1-123-333-00	ELECT 100MF	20% 16V	Q5501	=>8-729-612-77	TRANSISTOR 2SA1027R	
C5530	1-123-333-00	ELECT 100MF	20% 16V	Q5502	=>8-729-612-77	TRANSISTOR 2SA1027R	
C5531	1-108-385-00	MYLAR 0.047MF	10% 100V	Q5503	=>8-729-612-77	TRANSISTOR 2SA1027R	
C5532	1-108-367-00	MYLAR 0.0015MF	10% 100V	Q5504	=>8-729-612-77	TRANSISTOR 2SA1027R	
C5533	1-123-356-00	ELECT 10MF	20% 16V	Q5505	=>8-729-612-77	TRANSISTOR 2SA1027R	
C5534	1-123-356-00	ELECT 10MF	20% 16V	Q5506	8-729-663-47	TRANSISTOR 2SC1364	
C5535	1-123-331-00	ELECT 33MF	20% 25V	Q5507	8-729-663-47	TRANSISTOR 2SC1364	
C5536	1-123-356-00	ELECT 10MF	20% 16V	Q5508	=>8-729-612-77	TRANSISTOR 2SA1027R	
C5537	1-123-329-00	ELECT 10MF	20% 25V	Q5509	8-729-663-47	TRANSISTOR 2SC1364	
C5538	1-123-330-00	ELECT 22MF	20% 25V	Q5510	8-729-663-47	TRANSISTOR 2SC1364	
C5539	1-123-356-00	ELECT 10MF	20% 16V	Q5511	=>8-729-612-77	TRANSISTOR 2SA1027R	
C5540	1-102-228-00	CERAMIC 470PF	10% 500V	Q5512	=>8-729-612-77	TRANSISTOR 2SA1027R	
C5541	1-123-116-00	ELECT 1MF	160V	Q5513	8-729-663-47	TRANSISTOR 2SC1364	
C5542	1-108-383-00	MYLAR 0.033MF	10% 100V	Q5514	8-729-663-47	TRANSISTOR 2SC1364	
C5543	1-123-318-00	ELECT 33MF	20% 16V	Q5515	=>8-729-612-77	TRANSISTOR 2SA1027R	
C5544	1-123-318-00	ELECT 33MF	20% 16V	Q5516	8-729-663-47	TRANSISTOR 2SC1364	
C5545	1-108-385-00	MYLAR 0.047MF	10% 100V	Q5517	8-729-663-47	TRANSISTOR 2SC1364	
C5546	1-108-365-00	MYLAR 0.001MF	10% 100V	Q5518	8-729-663-47	TRANSISTOR 2SC1364	
C5547	1-123-318-00	ELECT 33MF	20% 16V	Q5519	8-729-663-47	TRANSISTOR 2SC1364	
C5549	1-123-356-00	ELECT 10MF	20% 16V	Q5520	8-761-510-00	TRANSISTOR 2SK58	
C5550	1-123-329-00	ELECT 10MF	20% 25V	Q5521	8-729-663-47	TRANSISTOR 2SC1364	

NOTE:

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• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H



Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
Q5521	8-729-663-47	TRANSISTOR 2SC1364		R5545	1-214-136-00	METAL 1.5K 1%	1/4W
Q5522	8-729-663-47	TRANSISTOR 2SC1364		R5546	1-214-156-00	METAL 10K 1%	1/4W
Q5523=>8-729-612-77	TRANSISTOR 2SA1027R			R5547	1-214-136-00	METAL 1.5K 1%	1/4W
Q5524	8-729-663-47	TRANSISTOR 2SC1364		R5548	1-214-156-00	METAL 10K 1%	1/4W
Q5525	8-729-663-47	TRANSISTOR 2SC1364		R5549	1-214-160-00	METAL 15K 1%	1/4W
Q5526=>8-729-612-77	TRANSISTOR 2SA1027R			R5550	1-214-168-00	METAL 33K 1%	1/4W
Q5527	8-729-663-47	TRANSISTOR 2SC1364		R5551	1-214-164-00	METAL 22K 1%	1/4W
Q5528	8-729-663-47	TRANSISTOR 2SC1364		R5552	1-214-176-00	METAL 68K 1%	1/4W
Q5529=>8-729-612-77	TRANSISTOR 2SA1027R			R5554	1-214-164-00	METAL 22K 1%	1/4W
Q5530	8-729-663-47	TRANSISTOR 2SC1364		R5555	1-214-176-00	METAL 68K 1%	1/4W
Q5531	8-729-663-47	TRANSISTOR 2SC1364		R5560	1-214-168-00	METAL 33K 1%	1/4W
Q5532	8-729-663-47	TRANSISTOR 2SC1364		R5563	1-214-168-00	METAL 33K 1%	1/4W
Q5533	8-729-663-47	TRANSISTOR 2SC1364		R5566	1-214-160-00	METAL 15K 1%	1/4W
Q5534	8-761-510-00	TRANSISTOR 2SK58		R5567	1-214-160-00	METAL 15K 1%	1/4W
Q5535	8-729-663-47	TRANSISTOR 2SC1364		R5568	1-214-160-00	METAL 15K 1%	1/4W
Q5536	8-729-663-47	TRANSISTOR 2SC1364		R5569	1-214-160-00	METAL 15K 1%	1/4W
Q5537=>8-729-612-77	TRANSISTOR 2SA1027R			R5571	1-214-164-00	METAL 22K 1%	1/4W
Q5538	8-729-663-47	TRANSISTOR 2SC1364		R5572	1-214-164-00	METAL 22K 1%	1/4W
Q5539	8-729-663-47	TRANSISTOR 2SC1364		R5574	1-214-168-00	METAL 33K 1%	1/4W
<b>RESISTOR</b>				R5575	1-214-168-00	METAL 33K 1%	1/4W
R5501	1-214-162-00	METAL 18K 1%	1/4W	R5577	1-214-168-00	METAL 33K 1%	1/4W
R5502	1-214-162-00	METAL 18K 1%	1/4W	R5578	1-214-168-00	METAL 33K 1%	1/4W
R5504	1-214-160-00	METAL 15K 1%	1/4W	R5580	1-214-164-00	METAL 22K 1%	1/4W
R5505	1-214-160-00	METAL 15K 1%	1/4W	R5583	1-214-164-00	METAL 22K 1%	1/4W
R5506	1-214-160-00	METAL 15K 1%	1/4W	R5585	1-214-168-00	METAL 33K 1%	1/4W
R5507	1-214-160-00	METAL 15K 1%	1/4W	R5586	1-214-168-00	METAL 33K 1%	1/4W
R5509	1-214-160-00	METAL 15K 1%	1/4W	R5587	1-214-174-00	METAL 56K 1%	1/4W
R5510	1-214-152-00	METAL 6.8K 1%	1/4W	R5588	1-214-174-00	METAL 56K 1%	1/4W
R5513	1-214-152-00	METAL 6.8K 1%	1/4W	R5589	1-214-174-00	METAL 56K 1%	1/4W
R5514	1-214-160-00	METAL 15K 1%	1/4W	R5590	1-214-174-00	METAL 56K 1%	1/4W
R5516	1-246-499-00	CARBON 12K 5%	1/4W	R5591	1-214-136-00	METAL 1.5K 1%	1/4W
R5517	1-246-495-00	CARBON 8.2K 5%	1/4W	R5592	1-214-180-00	METAL 100K 1%	1/4W
R5519	1-246-499-00	CARBON 12K 5%	1/4W	R5593	1-214-156-00	METAL 10K 1%	1/4W
R5520	1-246-495-00	CARBON 8.2K 5%	1/4W	R5594	1-214-160-00	METAL 15K 1%	1/4W
R5521	1-214-156-00	METAL 10K 1%	1/4W	R5595	1-214-162-00	METAL 18K 1%	1/4W
R5522	1-214-156-00	METAL 10K 1%	1/4W	R5596	1-214-160-00	METAL 15K 1%	1/4W
R5523	1-214-172-00	METAL 47K 1%	1/4W	R5597	1-213-135-00	METAL 220 5%	1W F
R5524	1-214-160-00	METAL 15K 1%	1/4W	R5598	1-213-135-00	METAL 220 5%	1W F
R5527	1-214-160-00	METAL 15K 1%	1/4W	R5600	1-214-158-00	METAL 12K 1%	1/4W
R5528	1-214-172-00	METAL 47K 1%	1/4W	R5601	1-246-507-00	CARBON 27K 5%	1/4W
R5530	1-246-505-00	CARBON 22K 5%	1/4W	R5604	1-214-162-00	METAL 18K 1%	1/4W
R5533	1-246-505-00	CARBON 22K 5%	1/4W	R5605	1-214-180-00	METAL 100K 1%	1/4W
R5535	1-214-164-00	METAL 22K 1%	1/4W	R5608	1-246-509-00	CARBON 33K 5%	1/4W
R5536	1-214-164-00	METAL 22K 1%	1/4W	R5609	1-246-509-00	CARBON 33K 5%	1/4W
R5537	1-214-174-00	METAL 56K 1%	1/4W	R5610	1-246-483-00	CARBON 2.7K 5%	1/4W
R5538	1-214-155-00	METAL 9.1K 1%	1/4W	R5611	1-246-471-00	CARBON 820 5%	1/4W
R5539	1-214-180-00	METAL 100K 1%	1/4W	R5612	1-246-491-00	CARBON 5.6K 5%	1/4W
R5540	1-214-174-00	METAL 56K 1%	1/4W	R5613	1-246-483-00	CARBON 2.7K 5%	1/4W
R5541	1-214-180-00	METAL 100K 1%	1/4W	R5614	1-246-471-00	CARBON 820 5%	1/4W
R5542	1-214-155-00	METAL 9.1K 1%	1/4W	R5615	1-246-491-00	CARBON 5.6K 5%	1/4W
R5543	1-214-164-00	METAL 22K 1%	1/4W	R5616	1-246-483-00	CARBON 2.7K 5%	1/4W
R5544	1-214-164-00	METAL 22K 1%	1/4W	R5617	1-246-471-00	CARBON 820 5%	1/4W
				R5618	1-246-491-00	CARBON 5.6K 5%	1/4W

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R5619	1-246-509-00	CARBON	33K 5% 1/4W	R5673	1-246-489-00	CARBON	4.7K 5% 1/4W
R5620	1-214-164-00	METAL	22K 1% 1/4W	R5674	1-246-525-00	CARBON	150K 5% 1/4W
R5621	1-214-164-00	METAL	22K 1% 1/4W	R5675	1-246-489-00	CARBON	4.7K 5% 1/4W
R5622	1-213-141-00	METAL	680 5% 1W F	R5676	1-213-143-00	METAL	1K 5% 1W F
R5623	1-246-485-00	CARBON	3.3K 5% 1/4W	R5677	1-213-143-00	METAL	1K 5% 1W F
R5624	1-246-485-00	CARBON	3.3K 5% 1/4W	R5678	1-246-489-00	CARBON	4.7K 5% 1/4W
R5625	1-213-141-00	METAL	680 5% 1W F	R5679	1-246-489-00	CARBON	4.7K 5% 1/4W
R5627	1-246-491-00	CARBON	5.6K 5% 1/4W	R5680	1-246-489-00	CARBON	4.7K 5% 1/4W
R5628	1-246-489-00	CARBON	4.7K 5% 1/4W	R5681	1-246-489-00	CARBON	4.7K 5% 1/4W
R5629	1-246-459-00	CARBON	270 5% 1/4W	R5682	1-246-497-00	CARBON	10K 5% 1/4W
R5630	1-214-170-00	METAL	39K 1% 1/4W	R5683	1-213-143-00	METAL	1K 5% 1W F
R5631	1-214-170-00	METAL	39K 1% 1/4W	R5684	1-213-143-00	METAL	1K 5% 1W F
R5632	1-213-140-00	METAL	560 5% 1W F	R5685	1-246-489-00	CARBON	4.7K 5% 1/4W
R5633	1-213-140-00	METAL	560 5% 1W F	R5686	1-246-489-00	CARBON	4.7K 5% 1/4W
R5634	1-246-485-00	CARBON	3.3K 5% 1/4W	R5687	1-246-457-00	CARBON	220 5% 1/4W
R5635	1-246-485-00	CARBON	3.3K 5% 1/4W	R5688	1-246-501-00	CARBON	15K 5% 1/4W
R5636	1-246-479-00	CARBON	1.8K 5% 1/4W	R5689	1-246-501-00	CARBON	15K 5% 1/4W
R5637	1-246-509-00	CARBON	33K 5% 1/4W	R5691	1-246-465-00	CARBON	470 5% 1/4W
R5638	1-246-515-00	CARBON	56K 5% 1/4W	R5692	1-246-449-00	CARBON	100 5% 1/4W
R5639	1-213-135-00	METAL	220 5% 1W F	R5693	1-246-521-00	CARBON	100K 5% 1/4W
R5640	1-246-467-00	CARBON	560 5% 1/4W	R5694	1-246-521-00	CARBON	100K 5% 1/4W
R5641	1-214-174-00	METAL	56K 1% 1/4W	R5695	1-246-521-00	CARBON	100K 5% 1/4W
R5642	1-214-175-00	METAL	62K 1% 1/4W	R5696	1-246-521-00	CARBON	100K 5% 1/4W
R5643	1-214-175-00	METAL	62K 1% 1/4W	R5697	1-246-501-00	CARBON	15K 5% 1/4W
R5644	1-213-141-00	METAL	680 5% 1W F	R5698	1-246-525-00	CARBON	150K 5% 1/4W
R5645	1-246-489-00	CARBON	4.7K 5% 1/4W	R5699	1-246-520-00	CARBON	91K 5% 1/4W
R5646	1-213-141-00	METAL	680 5% 1W F	R5700	1-246-494-00	CARBON	7.5K 5% 1/4W
R5647	1-246-489-00	CARBON	4.7K 5% 1/4W	R5701	1-246-509-00	CARBON	33K 5% 1/4W
R5648	1-246-491-00	CARBON	5.6K 5% 1/4W	R5702	1-246-449-00	CARBON	100 5% 1/4W
R5649	1-246-489-00	CARBON	4.7K 5% 1/4W	R5703	1-246-465-00	CARBON	470 5% 1/4W
R5650	1-246-499-00	CARBON	12K 5% 1/4W	R5704	1-246-505-00	CARBON	22K 5% 1/4W
R5651	1-213-143-00	METAL	1K 5% 1W F	R5705	1-246-505-00	CARBON	22K 5% 1/4W
R5652	1-213-143-00	METAL	1K 5% 1W F	R5706	1-213-141-00	METAL	680 5% 1W F
R5653	1-246-489-00	CARBON	4.7K 5% 1/4W	R5707	1-213-141-00	METAL	680 5% 1W F
R5654	1-246-489-00	CARBON	4.7K 5% 1/4W	R5708	1-246-489-00	CARBON	4.7K 5% 1/4W
R5655	1-246-453-00	CARBON	150 5% 1/4W	R5709	1-246-501-00	CARBON	15K 5% 1/4W
R5656	1-246-501-00	CARBON	15K 5% 1/4W	R5710	1-246-489-00	CARBON	4.7K 5% 1/4W
R5657	1-246-501-00	CARBON	15K 5% 1/4W	R5711	1-246-491-00	CARBON	5.6K 5% 1/4W
R5658	1-246-497-00	CARBON	10K 5% 1/4W	R5712	1-214-156-00	METAL	10K 1% 1/4W
R5659	1-246-521-00	CARBON	100K 5% 1/4W	R5713	1-246-499-00	CARBON	12K 5% 1/4W
R5660	1-246-521-00	CARBON	100K 5% 1/4W	<u>VARIABLE RESISTOR</u>			
R5661	1-246-521-00	CARBON	100K 5% 1/4W	RV5501	1-226-921-00	RES, ADJ, CARBON	4.7K
R5662	1-246-521-00	CARBON	100K 5% 1/4W	RV5502	1-226-921-00	RES, ADJ, CARBON	4.7K
R5663	1-246-501-00	CARBON	15K 5% 1/4W	RV5503	1-226-922-00	RES, ADJ, CARBON	22K
R5664	1-246-525-00	CARBON	150K 5% 1/4W	RV5504	1-226-922-00	RES, ADJ, CARBON	22K
R5665	1-246-523-00	CARBON	120K 5% 1/4W	RV5505	1-226-921-00	RES, ADJ, CARBON	4.7K
R5666	1-246-495-00	CARBON	8.2K 5% 1/4W	RV5516	1-226-921-00	RES, ADJ, CARBON	4.7K
R5667	1-246-511-00	CARBON	39K 5% 1/4W	RV5538	1-226-922-00	RES, ADJ, CARBON	22K
R5668	1-246-505-00	CARBON	22K 5% 1/4W	RV5539	1-226-921-00	RES, ADJ, CARBON	4.7K
R5669	1-246-505-00	CARBON	22K 5% 1/4W	RV5540	1-226-921-00	RES, ADJ, CARBON	4.7K
R5670	1-213-141-00	METAL	680 5% 1W F	RV5541	1-226-921-00	RES, ADJ, CARBON	4.7K
R5671	1-213-141-00	METAL	680 5% 1W F	RV5542	1-226-921-00	RES, ADJ, CARBON	4.7K
R5672	1-246-489-00	CARBON	4.7K 5% 1/4W				

NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "  $\bullet$  " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

RESISTORS  
All resistors are in ohms  
F : nonflammable

COILS  
MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
RV5543	1-226-923-00	RES, ADJ, CARBON 47K		C5343	1-108-429-00	MYLAR 0.047MF	10% 200V
RV5544	1-226-923-00	RES, ADJ, CARBON 47K		C5344	1-108-381-00	MYLAR 0.022MF	10% 100V
*****				C5345	1-102-820-00	CERAMIC 330PF	5% 50V
♣:A-1340-343-A	DB BOARD, COMPLETE	*****		C5346	1-102-233-00	CERAMIC 33PF	10% 500V
♣:4-347-706-00	HEAT SINK (TR)			C5347	1-123-328-00	ELECT 4.7MF	20% 25V
♣:4-821-501-00	HEAT SINK			C5348	1-121-246-00	ELECT 4.7MF	160V
CAPACITOR				C5349	1-108-369-00	MYLAR 0.0022MF	10% 100V
C5301	1-108-377-00	MYLAR 0.01MF	10% 100V	C5350	1-108-381-00	MYLAR 0.022MF	10% 100V
C5302	1-108-409-00	MYLAR 0.001MF	10% 200V	C5351	1-102-947-00	CERAMIC 10PF	5% 50V
C5303	1-108-409-00	MYLAR 0.001MF	10% 200V	C5352	1-108-429-00	MYLAR 0.047MF	10% 200V
C5304	1-108-429-00	MYLAR 0.047MF	10% 200V	C5353	1-108-417-00	MYLAR 0.0047MF	10% 200V
C5305	1-108-381-00	MYLAR 0.022MF	10% 100V	C5354	1-123-116-00	ELECT 1MF	160V
C5306	1-102-820-00	CERAMIC 330PF	5% 50V	C5355	1-123-323-00	ELECT 470MF	20% 16V
C5307	1-102-233-00	CERAMIC 33PF	10% 500V	C5356	1-130-121-00	FILM 0.0045MF	3% 1.5KV
C5308	1-123-328-00	ELECT 4.7MF	20% 25V	C5357	1-130-157-00	FILM 1MF	5% 200V
C5309	1-121-246-00	ELECT 4.7MF	160V	C5358	1-108-381-00	MYLAR 0.022MF	10% 100V
C5310	1-108-369-00	MYLAR 0.0022MF	10% 100V	C5359	1-102-978-00	CERAMIC 220PF	5% 50V
C5311	1-108-381-00	MYLAR 0.022MF	10% 100V	DIODE			
C5312	1-102-947-00	CERAMIC 10PF	5% 50V	D5301	8-719-815-55	DIODE 1S1555	
C5313	1-108-381-00	MYLAR 0.022MF	10% 100V	D5302	8-719-815-55	DIODE 1S1555	
C5314	1-108-417-00	MYLAR 0.0047MF	10% 200V	D5303	8-719-815-55	DIODE 1S1555	
C5315	1-123-116-00	ELECT 1MF	160V	D5304	8-719-300-76	DIODE RH1A	
C5316	1-123-323-00	ELECT 470MF	20% 16V	D5305	8-719-928-08	DIODE ERD28-08	
C5317	1-130-121-00	FILM 0.0045MF	3% 1.5KV	D5306⇒	8-719-928-08	DIODE ERD28-08	
C5318	1-130-157-00	FILM 1MF	5% 200V	D5308	8-719-815-55	DIODE 1S1555	
C5319	1-102-978-00	CERAMIC 220PF	5% 50V	D5309	8-719-815-55	DIODE 1S1555	
C5320	1-108-377-00	MYLAR 0.01MF	10% 100V	D5310	8-719-815-55	DIODE 1S1555	
C5321	1-108-409-00	MYLAR 0.001MF	10% 200V	D5311	8-719-300-76	DIODE RH1A	
C5322	1-108-409-00	MYLAR 0.001MF	10% 200V	D5312	8-719-928-08	DIODE ERD28-08	
C5323	1-108-429-00	MYLAR 0.047MF	10% 200V	D5313⇒	8-719-928-08	DIODE ERD28-08	
C5324	1-108-381-00	MYLAR 0.022MF	10% 100V	D5315	8-719-815-55	DIODE 1S1555	
C5325	1-102-820-00	CERAMIC 330PF	5% 50V	D5316	8-719-815-55	DIODE 1S1555	
C5326	1-102-233-00	CERAMIC 33PF	10% 500V	D5317	8-719-815-55	DIODE 1S1555	
C5327	1-123-328-00	ELECT 4.7MF	20% 25V	D5318	8-719-300-76	DIODE RH1A	
C5328	1-121-246-00	ELECT 4.7MF	160V	D5319	8-719-928-08	DIODE ERD28-08	
C5329	1-108-369-00	MYLAR 0.0022MF	10% 100V	D5320⇒	8-719-928-08	DIODE ERD28-08	
C5330	1-108-381-00	MYLAR 0.022MF	10% 100V	D5321	8-719-815-55	DIODE 1S1555	
C5331	1-102-947-00	CERAMIC 10PF	5% 50V	D5322	8-719-815-55	DIODE 1S1555	
C5332	1-108-381-00	MYLAR 0.022MF	10% 100V	D5323	8-719-815-55	DIODE 1S1555	
C5333	1-108-417-00	MYLAR 0.0047MF	10% 200V	CONNECTOR			
C5334	1-123-116-00	ELECT 1MF	160V	DB1	♣:1-506-348-XX	6P PLUG	
C5335	1-130-121-00	FILM 0.0045MF	3% 1.5KV	DB2	♣:1-508-768-00	6P PLUG	
C5336	1-123-323-00	ELECT 470MF	20% 16V	DB3	♣:1-508-766-00	4P PLUG (M)	
C5337	1-130-157-00	FILM 1MF	5% 200V	DB4	♣:1-508-768-00	6P PLUG	
C5338	1-108-431-00	MYLAR 0.068MF	10% 200V	DB5	♣:1-508-766-00	4P PLUG (M)	
C5339	1-102-978-00	CERAMIC 220PF	5% 50V	DB6	♣:1-508-766-00	4P PLUG (M)	
C5340	1-108-377-00	MYLAR 0.01MF	10% 100V	DB7	♣:1-508-784-00	1P PLUG	
C5341	1-108-409-00	MYLAR 0.001MF	10% 200V	DB8	♣:1-508-768-00	6P PLUG	
C5342	1-108-409-00	MYLAR 0.001MF	10% 200V	DB9	♣:1-508-786-00	2P PLUG (M)	
				DB10	♣:1-508-784-00	1P PLUG	

NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked " ♣ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS

• All resistors are in ohms  
• F : nonflammable

COILS

• MMH : mH, UH :  $\mu$ H

mark

OV  
OV  
OV  
OV  
OVOV  
OV  
OV  
OV  
OVOV  
OV  
OV  
OV  
5KV  
OVOV  
OV

Ref.No Part No Description

DB11 ▲:1-506-348-XX 3P PLUG (L)  
DB12 ▲:1-506-348-XX PLUG, 5P  
DB13 ▲:1-508-767-00 5P PLUG  
DB14 ▲:1-506-348-XX PLUG, 5P  
DB15 ▲:1-508-767-00 5P PLUG

DB16 ▲:1-506-348-XX PLUG, 5P  
DB17 ▲:1-508-767-00 5P PLUG

COIL

L5301 1-407-500-00 MICRO INDUCTOR 4.7MMH  
L5302 1-407-500-00 MICRO INDUCTOR 4.7MMH  
L5303 1-407-500-00 MICRO INDUCTOR 4.7MMH

TRANSISTOR

Q5301 8-765-020-00 TRANSISTOR 2SA884  
Q5302=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5303=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5304 8-762-110-00 TRANSISTOR 2SC1670  
Q5305 8-729-307-82 TRANSISTOR 2SD478

Q5306 8-729-326-82 TRANSISTOR 2SB568  
Q5307=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5308=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5309=>8-729-255-12 TRANSISTOR 2SD552  
Q5310 8-729-307-82 TRANSISTOR 2SD478

Q5311 8-729-326-82 TRANSISTOR 2SB568  
Q5312 8-765-222-20 TRANSISTOR 2SC1963  
Q5313=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5314=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5315 8-729-663-47 TRANSISTOR 2SC1364

Q5316 8-729-316-16 TRANSISTOR 2SC1061  
Q5317 8-729-317-12 TRANSISTOR 2SA671  
Q5318 8-729-307-82 TRANSISTOR 2SD478  
Q5319=>8-729-255-12 TRANSISTOR 2SD552  
Q5320 8-765-020-00 TRANSISTOR 2SA884

Q5321=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5322=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5323 8-762-113-00 TRANSISTOR 2SC1670-13  
Q5324 8-729-307-82 TRANSISTOR 2SD478  
Q5325 8-729-326-82 TRANSISTOR 2SB568

Q5326=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5327=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5328=>8-729-255-12 TRANSISTOR 2SD552  
Q5329 8-729-307-82 TRANSISTOR 2SD478  
Q5330 8-729-326-82 TRANSISTOR 2SB568

Q5331 8-765-222-20 TRANSISTOR 2SC1963  
Q5332=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5333=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5334 8-729-316-16 TRANSISTOR 2SC1061  
Q5335 8-729-317-12 TRANSISTOR 2SA671

Q5336 8-729-663-47 TRANSISTOR 2SC1364  
Q5337 8-729-307-82 TRANSISTOR 2SD478  
Q5338=>8-729-255-12 TRANSISTOR 2SD552  
Q5340 8-765-020-00 TRANSISTOR 2SA884

## NOTE:

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- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Remark

Ref.No Part No Description

Remark

Q5341=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5342=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5343 8-762-110-00 TRANSISTOR 2SC1670  
Q5344 8-729-307-82 TRANSISTOR 2SD478  
Q5345 8-729-326-82 TRANSISTOR 2SB568

Q5346=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5347=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5348=>8-729-255-12 TRANSISTOR 2SD552  
Q5349 8-729-307-82 TRANSISTOR 2SD478  
Q5350 8-729-326-82 TRANSISTOR 2SB568

Q5351 8-765-222-20 TRANSISTOR 2SC1963  
Q5352=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5353=>8-729-612-77 TRANSISTOR 2SA1027R  
Q5354 8-729-316-16 TRANSISTOR 2SC1061  
Q5355 8-729-317-12 TRANSISTOR 2SA671

Q5356 8-729-663-47 TRANSISTOR 2SC1364  
Q5357 8-729-307-82 TRANSISTOR 2SD478  
Q5358=>8-729-255-12 TRANSISTOR 2SD552

RESISTOR

R5301 1-214-156-00 METAL 10K 1% 1/4W  
R5302 1-246-539-00 CARBON 560K 5% 1/4W  
R5303 1-246-515-00 CARBON 56K 5% 1/4W  
R5304 1-246-515-00 CARBON 56K 5% 1/4W  
R5305 1-214-600-00 METAL 82K 5% 1W F

R5306 1-246-469-00 CARBON 680 5% 1/4W  
R5307 1-246-469-00 CARBON 680 5% 1/4W  
R5308 1-246-994-00 CARBON 680 5% 1/8W F  
R5309 1-206-759-00 METAL 27K 5% 3W F  
R5310 1-213-154-00 METAL 8.2K 5% 1W F

R5311 1-214-099-00 METAL 43 1% 1/4W  
R5312 1-214-100-00 METAL 47 1% 1/4W  
R5313 1-214-100-00 METAL 47 1% 1/4W  
R5314 1-214-599-00 METAL 68K 5% 1W F  
R5315 1-246-994-00 CARBON 680 5% 1/8W F

R5316 1-213-158-00 METAL 18K 5% 1W F  
R5317 1-246-507-00 CARBON 27K 5% 1/4W  
R5318 1-246-507-00 CARBON 27K 5% 1/4W  
R5319 1-213-151-00 METAL 4.7K 5% 1W F  
R5320 1-214-092-00 METAL 22 1% 1/4W

R5321 1-214-092-00 METAL 22 1% 1/4W  
R5322 1-214-144-00 METAL 3.3K 1% 1/4W  
R5323 1-246-517-00 CARBON 68K 5% 1/4W  
R5324 1-246-517-00 CARBON 68K 5% 1/4W  
R5325 1-246-517-00 CARBON 68K 5% 1/4W

R5326 1-246-487-00 CARBON 3.9K 5% 1/4W  
R5327 1-246-469-00 CARBON 680 5% 1/4W  
R5328 1-246-469-00 CARBON 680 5% 1/4W  
R5329 1-213-143-00 METAL 1K 5% 1W F  
R5330 1-213-148-00 METAL 2.7K 5% 1W F

R5331 1-214-092-00 METAL 22 1% 1/4W  
R5332 1-214-092-00 METAL 22 1% 1/4W  
R5333 1-214-092-00 METAL 22 1% 1/4W

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

## CAPACITORS

- MF :  $\mu$ F, PF :  $\mu$ uF

## RESISTORS

- All resistors are in ohms
- F : nonflammable

## COILS

- MMH : mH, uH :  $\mu$ H

Ref.No	Part No	Description				Remark	Ref.No	Part No	Description				Remark
R5334	1-246-783-00	CARBON	1K	5%	1/8W	F	R5388	1-206-759-00	METAL	27K	5%	3W	F
R5335	1-206-751-00	METAL	12K	5%	3W	F	R5389	1-213-154-00	METAL	8.2K	5%	1W	F
R5336	1-206-656-00	METAL	470	5%	2W	F	R5390	1-214-099-00	METAL	43	1%	1/4W	
R5337	1-246-523-00	CARBON	120K	5%	1/4W		R5391	1-214-100-00	METAL	47	1%	1/4W	
R5338	1-246-994-00	CARBON	680	5%	1/8W	F	R5392	1-214-100-00	METAL	47	1%	1/4W	
R5339	1-246-425-00	CARBON	10	5%	1/4W		R5393	1-214-599-00	METAL	68K	5%	1W	F
R5340	1-246-425-00	CARBON	10	5%	1/4W		R5394	1-246-994-00	CARBON	680	5%	1/8W	F
R5341	1-246-539-00	CARBON	560K	5%	1/4W		R5395	1-213-158-00	METAL	18K	5%	1W	F
R5342	1-246-515-00	CARBON	56K	5%	1/4W		R5396	1-246-507-00	CARBON	27K	5%	1/4W	
R5343	1-246-515-00	CARBON	56K	5%	1/4W		R5397	1-246-507-00	CARBON	27K	5%	1/4W	
R5344	1-214-600-00	METAL	82K	5%	1W	F	R5398	1-214-092-00	METAL	22	1%	1/4W	
R5345	1-246-469-00	CARBON	680	5%	1/4W		R5399	1-214-092-00	METAL	22	1%	1/4W	
R5346	1-246-469-00	CARBON	680	5%	1/4W		R5400	1-213-151-00	METAL	4.7K	5%	1W	F
R5347	1-246-994-00	CARBON	680	5%	1/8W	F	R5401	1-214-144-00	METAL	3.3K	1%	1/4W	
R5348	1-206-759-00	METAL	27K	5%	3W	F	R5402	1-246-517-00	CARBON	68K	5%	1/4W	
R5349	1-213-154-00	METAL	8.2K	5%	1W	F	R5403	1-246-517-00	CARBON	68K	5%	1/4W	
R5350	1-214-099-00	METAL	43	1%	1/4W		R5404	1-246-517-00	CARBON	68K	5%	1/4W	
R5351	1-214-100-00	METAL	47	1%	1/4W		R5405	1-246-487-00	CARBON	3.9K	5%	1/4W	
R5352	1-214-100-00	METAL	47	1%	1/4W		R5406	1-246-469-00	CARBON	680	5%	1/4W	
R5353	1-214-599-00	METAL	68K	5%	1W	F	R5407	1-246-469-00	CARBON	680	5%	1/4W	
R5354	1-246-994-00	CARBON	680	5%	1/8W	F	R5408	1-213-143-00	METAL	1K	5%	1W	F
R5355	1-213-158-00	METAL	18K	5%	1W	F	R5409	1-246-994-00	CARBON	680	5%	1/8W	F
R5356	1-246-507-00	CARBON	27K	5%	1/4W		R5410	1-214-092-00	METAL	22	1%	1/4W	
R5357	1-246-507-00	CARBON	27K	5%	1/4W		R5411	1-214-092-00	METAL	22	1%	1/4W	
R5358	1-214-100-00	METAL	47	1%	1/4W		R5412	1-214-092-00	METAL	22	1%	1/4W	
R5360	1-213-151-00	METAL	4.7K	5%	1W	F	R5413	1-213-148-00	METAL	2.7K	5%	1W	F
R5361	1-214-144-00	METAL	3.3K	1%	1/4W		R5414	1-246-783-00	CARBON	1K	5%	1/8W	F
R5362	1-246-517-00	CARBON	68K	5%	1/4W		R5415	1-206-751-00	METAL	12K	5%	3W	F
R5363	1-246-517-00	CARBON	68K	5%	1/4W		R5416	1-206-656-00	METAL	470	5%	2W	F
R5364	1-246-517-00	CARBON	68K	5%	1/4W		R5417	1-246-523-00	CARBON	120K	5%	1/4W	
R5365	1-246-487-00	CARBON	3.9K	5%	1/4W		R5418	1-246-425-00	CARBON	10	5%	1/4W	
R5366	1-246-469-00	CARBON	680	5%	1/4W		R5419	1-246-425-00	CARBON	10	5%	1/4W	
R5367	1-246-469-00	CARBON	680	5%	1/4W		R5420	1-214-156-00	METAL	10K	1%	1/4W	
R5368	1-213-143-00	METAL	1K	5%	1W	F	R5421	1-246-527-00	CARBON	180K	5%	1/4W	
R5369	1-246-994-00	CARBON	680	5%	1/8W	F	R5422	1-213-149-00	METAL	3.3	5%	1W	F
R5370	1-214-092-00	METAL	22	1%	1/4W		R5423	1-213-149-00	METAL	3.3	5%	1W	F
R5371	1-214-092-00	METAL	22	1%	1/4W		R5424	1-213-149-00	METAL	3.3	5%	1W	F
R5372	1-214-092-00	METAL	22	1%	1/4W								
R5373	1-246-783-00	CARBON	1K	5%	1/8W	F							
R5374	1-206-751-00	METAL	12K	5%	3W	F							
R5375	1-206-656-00	METAL	470	5%	2W	F							
R5376	1-246-523-00	CARBON	120K	5%	1/4W								
R5377	1-213-148-00	METAL	2.7K	5%	1W	F							
R5378	1-246-425-00	CARBON	10	5%	1/4W								
R5379	1-246-425-00	CARBON	10	5%	1/4W								
R5380	1-214-156-00	METAL	10K	1%	1/4W								
R5381	1-246-539-00	CARBON	560K	5%	1/4W								
R5382	1-246-515-00	CARBON	56K	5%	1/4W								
R5383	1-246-515-00	CARBON	56K	5%	1/4W								
R5384	1-214-600-00	METAL	82K	5%	1W	F							
R5385	1-246-469-00	CARBON	680	5%	1/4W								
R5386	1-246-469-00	CARBON	680	5%	1/4W								
R5387	1-246-994-00	CARBON	680	5%	1/8W	F							

*****													
♣:1-600-947-00								S BOARD					
								*****					
♣:4-316-262-00								PLATE (A), SHIELD					
♣:4-316-263-00								PLATE (B), SHIELD					
♣:4-317-752-00								LID, UPPER, SHIELD CASE (A)					
♣:4-317-753-13								LID, BOTTOM, SHIELD CASE (A)					
♣:4-317-759-00								SHIELD CASE (A), MAIN					

NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "  $\Delta$  " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS

- All resistors are in ohms
- F : nonflammable

COILS

• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark
<u>CAPACITOR</u>			
C101	1-123-356-00	ELECT 10MF	20% 16V
C102	1-123-328-00	ELECT 4.7MF	20% 25V
C103	1-123-328-00	ELECT 4.7MF	20% 25V
C105	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C106	1-108-385-00	MYLAR 0.047MF	10% 100V
C107	1-108-387-00	MYLAR 0.068MF	10% 100V
C108	1-161-299-00	CERAMIC 33PF	5% 50V
C109	1-123-330-00	ELECT 22MF	20% 16V
C110	1-108-389-00	MYLAR 0.1MF	10% 100V
C113	1-123-356-00	ELECT 10MF	20% 16V
C121	1-102-887-00	CERAMIC 47PF	5% 50V
C122	1-102-884-00	CERAMIC 33PF	5% 50V
C123	1-102-889-00	CERAMIC 39PF	5% 50V
C124	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C125	1-102-963-00	CERAMIC 33PF	5% 50V
C126	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C127	1-102-125-00	CERAMIC 0.0047MF	10% 50V
<u>DIODE</u>			
D101	8-719-815-55	DIODE 1S1555	
<u>JACK</u>			
J121	♣:1-526-575-00	SOCKET, PLUG	
<u>COIL</u>			
L101	1-407-690-00	MICRO INDUCTOR 5.6UH	
L121	1-407-178-XX	MICRO INDUCTOR 1UH	
L122	1-407-178-XX	MICRO INDUCTOR 1UH	
<u>TRANSISTOR</u>			
Q101	=>8-729-663-47	TRANSISTOR 2SC1364	
Q121	8-724-375-01	TRANSISTOR 2SC403C	
<u>RESISTOR</u>			
R101	1-246-509-00	CARBON 33K 5%	1/4W
R102	1-246-533-00	CARBON 330K 5%	1/4W
R103	1-246-481-00	CARBON 2.2K 5%	1/4W
R104	1-246-485-00	CARBON 3.3K 5%	1/4W
R114	1-246-491-00	CARBON 5.6K 5%	1/4W
R121	1-246-467-00	CARBON 560 5%	1/4W
R122	1-246-489-00	CARBON 4.7K 5%	1/4W
R123	1-246-487-00	CARBON 3.9K 5%	1/4W
R124	1-246-465-00	CARBON 470 5%	1/4W
R125	1-246-457-00	CARBON 220 5%	1/4W
R126	1-246-441-00	CARBON 47 5%	1/4W
<u>CONNECTOR</u>			
S1	♣:1-508-765-00	3P PLUG (M)	
S2	♣:1-508-767-00	5P PLUG	

## NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark
<u>TRANSFORMER</u>			
T121	1-404-096-00	COIL, VHF	
<u>TUNER</u>			
TU101	♣:1-463-172-00	BT-851	
*****			
♣:1-604-599-00	HC BOARD	*****	
♣:4-341-626-00	HOLDER, LED (2)		
<u>CAPACITOR</u>			
C9201	1-161-051-00	CERAMIC 0.01MF	30% 25V
C9202	1-161-051-00	CERAMIC 0.01MF	30% 25V
<u>DIODE</u>			
D9201	8-719-812-41	DIODE TLR124	
D9202	=>8-719-812-43	DIODE TLG124	
D9203	=>8-719-812-42	DIODE TLY124	
D9204	8-719-812-41	DIODE TLR124	
D9205	8-719-812-41	DIODE TLR124	
D9206	8-719-812-41	DIODE TLR124	
D9207	8-719-812-41	DIODE TLR124	
D9208	8-719-812-41	DIODE TLR124	
D9209	=>8-719-911-19	DIODE 1SS119	
<u>IC</u>			
IC9201	8-759-619-03	IC M51903L	
<u>RESISTOR</u>			
R9201	1-246-481-00	CARBON 2.2K 5%	1/4W
R9202	1-246-481-00	CARBON 2.2K 5%	1/4W
R9203	1-246-481-00	CARBON 2.2K 5%	1/4W
R9204	1-246-481-00	CARBON 2.2K 5%	1/4W
R9205	1-246-461-00	CARBON 330 5%	1/4W
R9206	1-246-449-00	CARBON 100 5%	1/4W
<u>SWITCH</u>			
S9201	1-516-640-00	SWITCH, SLIDE	
S9202	1-516-640-00	SWITCH, SLIDE	
S9203	1-553-363-00	SWITCH, PUSH	
S9204	1-553-363-00	SWITCH, PUSH	
S9205	1-553-363-00	SWITCH, PUSH	
S9206	1-553-363-00	SWITCH, PUSH	



HA

HD

HF

HE

Ref.No Part No Description Remark

♣:1-604-598-00 HA BOARD  
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## CAPACITOR

C9101	1-123-318-00	ELECT	33MF	20%	16V
C9102	1-123-318-00	ELECT	33MF	20%	16V
C9103	1-108-375-00	MYLAR	0.0068MF	10%	100V
C9104	1-108-387-00	MYLAR	0.068MF	10%	100V
C9105	1-123-328-00	ELECT	4.7MF	20%	25V

C9106	1-108-383-00	MYLAR	0.033MF	10%	100V
C9107	1-108-822-00	MYLAR	0.33MF	5%	50V
C9108	1-123-328-00	ELECT	4.7MF	20%	25V
C9109	1-123-330-00	ELECT	22MF	20%	16V
C9110	1-123-321-00	ELECT	220MF	20%	16V

C9111	1-108-381-00	MYLAR	0.022MF	10%	100V
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## DIODE

D9101	=8-719-911-19	DIODE 1SS119
D9102	=8-719-911-19	DIODE 1SS119
D9103	8-719-911-19	DIODE 1SS119

## TRANSISTOR

Q9101	8-729-665-47	TRANSISTOR 2SC1362
Q9102	8-729-663-47	TRANSISTOR 2SC1364
Q9103	8-729-663-47	TRANSISTOR 2SC1364

## RESISTOR

R9101	1-246-503-00	CARBON	18K	1%	1/4W
R9102	1-246-503-00	CARBON	18K	1%	1/4W
R9103	1-246-473-00	CARBON	1K	5%	1/4W
R9104	1-246-507-00	CARBON	27K	5%	1/4W
R9105	1-246-497-00	CARBON	10K	5%	1/4W

R9106	1-246-473-00	CARBON	1K	5%	1/4W
R9107	1-246-537-00	CARBON	470K	5%	1/4W
R9108	1-246-519-00	CARBON	82K	5%	1/4W
R9109	1-246-489-00	CARBON	4.7K	5%	1/4W
R9110	1-246-465-00	CARBON	470	5%	1/4W

R9111	1-246-479-00	CARBON	1.8K	5%	1/4W
R9112	1-246-505-00	CARBON	22K	5%	1/4W
R9113	1-246-479-00	CARBON	1.8K	5%	1/4W
R9114	1-246-505-00	CARBON	22K	5%	1/4W
R9115	1-246-479-00	CARBON	1.8K	5%	1/4W

R9116	1-246-497-00	CARBON	10K	5%	1/4W
R9117	1-246-537-00	CARBON	470K	5%	1/4W

## VARIABLE RESISTOR

RV9101	1-224-571-00	RES, VAR, CARBON 5K
RV9102	1-224-571-00	RES, VAR, CARBON 5K
RV9103	1-224-571-00	RES, VAR, CARBON 5K
RV9104	1-224-571-00	RES, VAR, CARBON 5K
RV9105	1-224-571-00	RES, VAR, CARBON 5K

RV9106	1-224-571-00	RES, VAR, CARBON 5K
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## NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked " ♣ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ PF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No Part No Description Remark

RV9107	1-224-571-00	RES, VAR, CARBON 5K
RV9108	1-224-570-31	RES, VAR, CARBON 10K
RV9109	1-224-555-00	RES, VAR, CARBON 50K
RV9110	1-224-555-00	RES, VAR, CARBON 50K

## SWITCH

SW9101	1-516-473-XX	AFT SWITCH
SW9102	1-516-473-XX	AFT SWITCH
SW9103	1-552-774-00	SWITCH, PUSH
SW9104	1-552-774-00	SWITCH, PUSH
SW9105	1-552-774-00	SWITCH, PUSH

SW9106	1-552-774-00	SWITCH, PUSH
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♣:1-604-600-00 HD BOARD  
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♣:4-348-208-00 HOLDER, LED

## DIODE

D9301	8-719-812-41	DIODE TLR124
D9302	8-719-812-41	DIODE TLR124
D9303	8-719-812-41	DIODE TLR124
D9304	8-719-803-24	DIODE TLR324

## IC

IC9301	8-759-997-64	IC SN29764N
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## RESISTOR

R9301	1-246-479-00	CARBON	1.8K	5%	1/4W
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♣:1-604-602-00 HF BOARD  
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## CAPACITOR

C9301	1-161-051-00	CERAMIC	0.01MF	30%	25V
C9302	1-161-051-00	CERAMIC	0.01MF	30%	25V

## SWITCH

S9301	1-552-774-00	SWITCH, PUSH
S9302	1-552-774-00	SWITCH, PUSH
S9303	1-552-774-00	SWITCH, PUSH
S9304	1-552-774-00	SWITCH, PUSH

\*\*\*\*\*

♣:1-604-601-00 HE BOARD  
\*\*\*\*\*

♣:4-348-208-00 HOLDER, LED

Ref.No Part No Description

Remark

DIODE

D9305 8-719-812-43 DIODE TLG124

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♣:1-605-209-00 K BOARD  
\*\*\*\*\*CONNECTORK1 1-508-765-00 3P PLUG (M)  
K2 1-508-765-00 3P PLUG (M)JACK

J951 1-507-657-00 JACK

RESISTORR651 1-246-453-00 CARBON 150 5% 1/4W  
R652 1-246-453-00 CARBON 150 5% 1/4W

\*\*\*\*\*

♣:1-604-604-00 X BOARD  
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♣:4-330-112-00 CAP, SHIELD

CAPACITOR

C151	1-123-356-00	ELECT	10MF	20%	16V
C152	1-161-269-00	CERAMIC	68PF	5%	50V
C153	1-161-051-00	CERAMIC	0.01MF	30%	25V
C154	1-108-377-00	MYLAR	0.01MF	10%	100V
C155	1-123-356-00	ELECT	10MF	20%	16V
C156	1-123-356-00	ELECT	10MF	20%	16V
C157	1-123-380-00	ELECT	1MF	20%	50V
C159	1-161-269-00	CERAMIC	68PF	5%	50V

DIODE

D151 8-719-100-33 DIODE PH3C2A

COIL

L151 1-409-315-00 COIL 100MH

TRANSISTORQ151 =>8-769-200-40 TRANSISTOR 2SK107  
Q152 =>8-729-663-47 TRANSISTOR 2SC1364  
Q153 =>8-729-612-77 TRANSISTOR 2SA1027R  
Q154 =>8-729-663-47 TRANSISTOR 2SC1364RESISTOR

R151	1-246-497-00	CARBON	10K	5%	1/4W
R152	1-246-533-00	CARBON	330K	5%	1/4W
R153	1-246-473-00	CARBON	1K	5%	1/4W
R154	1-246-537-00	CARBON	470K	5%	1/4W

NOTE:

The components identified by shading and mark ♣ are critical for safety. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	Remark
♣:1-555-805-00		CONNECTOR ASSY, MINIATURE 4P	
♣:1-555-806-00		CONNECTOR ASSY, MINIATURE 4P	
♣:1-555-816-00		CONNECTOR ASSY (2.5MM) 4P	
♣:1-555-819-00		CONNECTOR ASSY, MINIATURE 1P	
♣:1-555-835-00		CONNECTOR ASSY (2.5MM) 7P	
♣:1-555-851-00		CONNECTOR ASSY, MINIATURE 6P	
♣:1-555-866-00		CONNECTOR ASSY (2.5MM) 8P	
♣:1-561-014-00		CONNECTOR ASSY, MINIATURE (1P)	
♣:1-561-015-71		CONNECTOR POST HEDDER 5P	
♣:1-561-340-00		SOCKET, CONNECTOR 15P	
△:8-738-101-05		CRT, SD-116 G	
△:8-738-102-05		CRT, SD-116 B	
△:8-738-103-05		CRT, SD-116 R	
C901	1-102-155-00	CAP, CERAMIC 330PF	
C902	1-102-155-00	CAP, CERAMIC 330PF	
J952	1-507-142-XX	PIN JACK, 2P	
L901	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY) 0.7UH	
L902	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY) 0.7UH	
L903	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY) 0.7UH	
L904	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY) 0.7UH	
Q901	8-729-311-42	TRANSISTOR 2SC1114-0	
Q902	8-729-341-34	TRANSISTOR 2SC1413A	
Q903	8-729-341-34	TRANSISTOR 2SC1413A	
Q904	8-729-301-62	TRANSISTOR 2SC1116A-0	
R901	1-205-497-00	RES, SEMENT 120	
T901	△:1-446-968-00	TRANSFORMER, POWER	
S901	△:1-553-225-00	SWITCH, PUSH	
SP901	1-502-966-00	SPEAKER	
SP902	1-502-966-00	SPEAKER	
S902	△:1-526-572-00	SOCKET, POWER VOLTAGE SELECT	

#### NOTE:

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

#### ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
A-1009-041-A	REMOTE COMMANDER, RM-606	
X-4346-419-0	TABLE ASSY, BOTTOM	
X-4350-308-0	GLASS ASSY, TOP	
X-4500-007-1	CLOTH	
1-508-955-00	PLUG, ANTENNA	
1-528-027-11	BATTERY, SIZE"AA"(IEC DESIGNATION R6)	
3-701-616-00	BAG, POLYETHYLENE	
3-701-624-00	BAG, POLYETHYLENE; RM-606	
3-701-630-00	BAG, POLYETHYLENE	
4-333-927-00	LABEL, CAUTION (A); SCREEN	
4-346-477-00	CUSHION (A), SCREEN (KP-5020)	
4-346-478-00	CUSHION (B), SCREEN (KP-5020)	
4-346-480-00	BAG, PROTECTION	
4-346-482-00	HOLDER, GLASS	
4-346-486-00	CUSHION (INNER)	
4-346-488-00	INDIVIDUAL CARTON, SCREEN (KP-5020)	
4-346-489-00	REINFORCEMENT, SCREEN (KP-5020)	
4-346-490-00	BAG, POLYETHYLENE, SCREEN (KP-5020)	
4-346-491-00	COVER, SCREEN (KP-5020)	
4-346-495-00	INDIVIDUAL CARTON, SCREEN (KP-7220)	
4-346-496-00	REINFORCEMENT, SCREEN (KP-7220)	
4-346-497-00	BAG, POLYETHYLENE, SCREEN (KP-7220)	
4-346-498-00	COVER, SCREEN (KP-7220)	
4-347-487-00	CUSHION (LOWER)	
4-347-702-00	CUSHION (A), SCREEN (KP-7220)	
4-347-703-00	CUSHION (B), SCREEN (KP-7220)	
4-347-710-00	CUSHION	
4-347-724-00	INDIVIDUAL CARTON (KP-7220)	
4-347-731-00	INDIVIDUAL CARTON (KP-5020)	
4-350-325-00	CUSHION (A)	
4-353-445-00	CUSHION (UPPER)	
4-491-213-21	INSTRUCTION	
4-495-979-11	MANUAL, INSTRUCTION	

# RM-606



## REMOTE COMMANDER

### SPECIFICATIONS

<b>Remote Control System:</b>	Infrared control
<b>Power Requirements:</b>	4.5 V dc Battery size "AA" (IEC designation R6) 3 pcs.
<b>Semiconductors:</b>	1 IC, 1 transistor and 3 diodes
<b>Dimensions:</b>	Approx. 68 (w) x 28 (h) x 144 (d) mm 2 3/4 (w) x 1 1/8 (h) x 4 1/2 (d) inches
<b>Weight:</b>	Approx. 164 g (6 oz) including batteries
<b>Accessories Supplied:</b>	Battery size "AA" (IEC designation R6) 3 pcs.

1. MOUNTING DIAGRAM  
— Conductor Side —

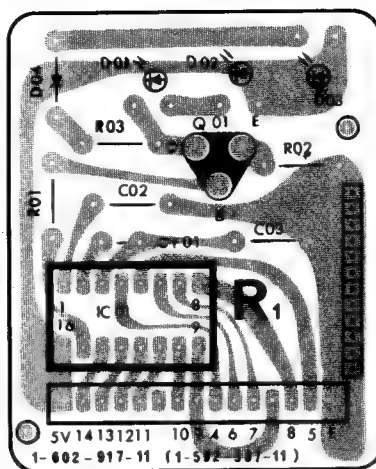
A

B

C

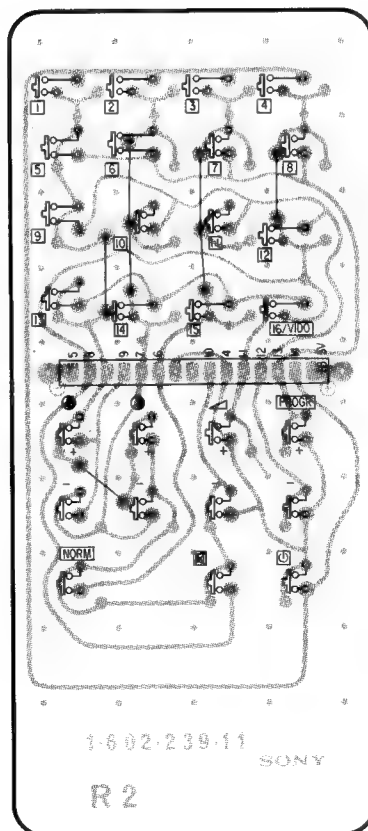
D

1



2

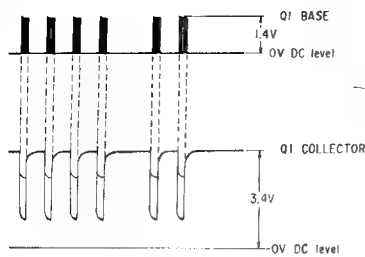
3



4

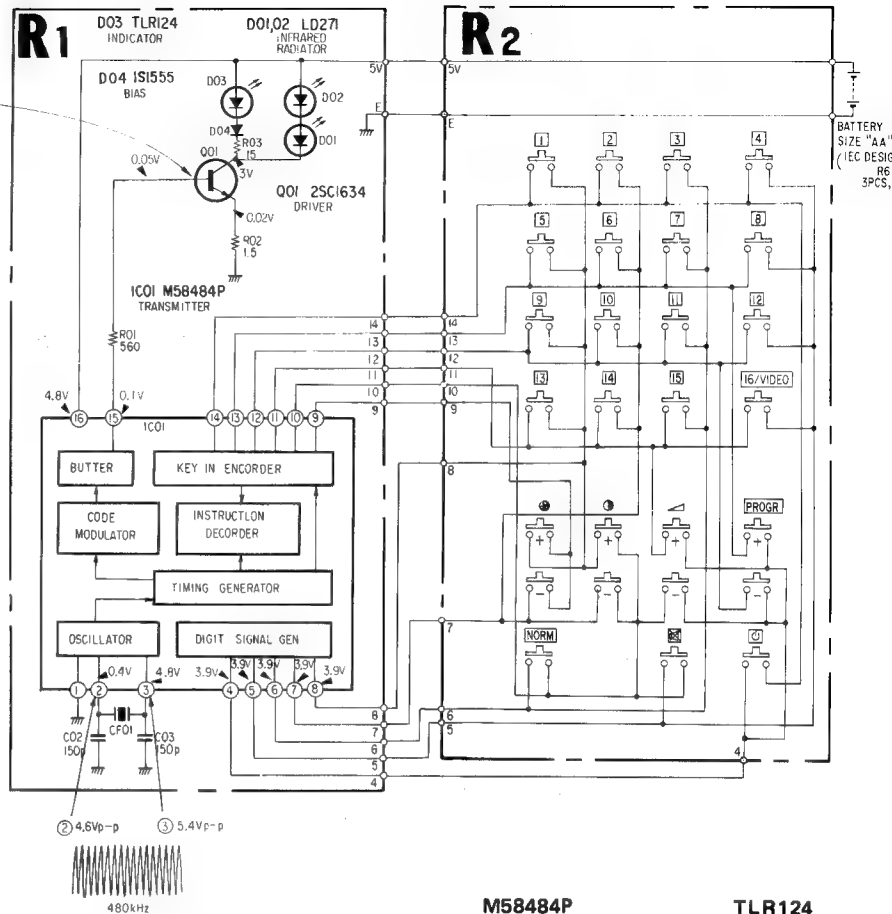
5

## 2. SCHEMATIC DIAGRAM

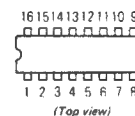


VOLTAGES ON IC01

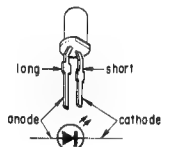
MODE	9	10	11	12	13	14
CH-1	4.3	4.3	4.3	4.3	4.3	(3.9)
CH-2	4.3	4.3	4.3	4.3	4.3	(3.9)
CH-3	4.3	4.3	4.3	4.3	4.3	(3.9)
CH-4	4.3	4.3	4.3	4.3	4.3	(3.9)
CH-5	4.3	4.3	4.3	4.3	(3.9)	4.3
CH-6	4.3	4.3	4.3	4.3	(3.9)	4.3
CH-7	4.3	4.3	4.3	4.3	(3.9)	4.3
CH-8	4.3	4.3	4.3	4.3	(3.9)	4.3
CH-9	4.3	4.3	4.3	(3.9)	4.3	4.3
CH-10	4.3	4.3	4.3	(3.9)	4.3	4.3
CH-11	4.3	4.3	4.3	(3.9)	4.3	4.3
CH-12	4.3	4.3	4.3	(3.9)	4.3	4.3
CH-13	4.3	4.3	(3.9)	4.3	4.3	4.3
CH-14	4.3	4.3	(3.9)	4.3	4.3	4.3
CH-15	4.3	4.3	(3.9)	4.3	4.3	4.3
CH-16/VIDEO	4.3	4.3	(3.9)	4.3	4.3	4.3
+	(3.9)	4.3	4.3	4.3	4.3	4.3
-	(3.9)	4.3	4.3	4.3	4.3	4.3
+	4.3	(3.9)	4.3	4.3	4.3	4.3
-	4.3	(3.9)	4.3	4.3	4.3	4.3
+	4.3	4.3	(3.9)	4.3	4.3	4.3
-	4.3	4.3	(3.9)	4.3	4.3	4.3
PROGR +	4.3	4.3	4.3	4.3	(3.9)	4.3
PROGR -	4.3	4.3	4.3	(3.9)	4.3	4.3
NORM	4.3	(3.9)	4.3	4.3	4.3	4.3
⊗	4.3	(3.9)	4.3	4.3	4.3	4.3
○	4.3	4.3	4.3	4.3	4.3	(3.9)



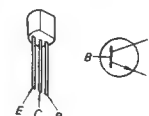
M58484P



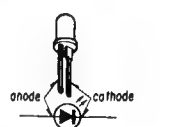
TLR124



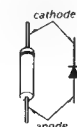
2SC1634



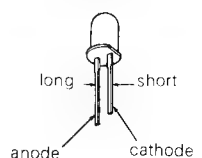
LD271



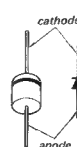
1S1555



SE303AX



1SS119

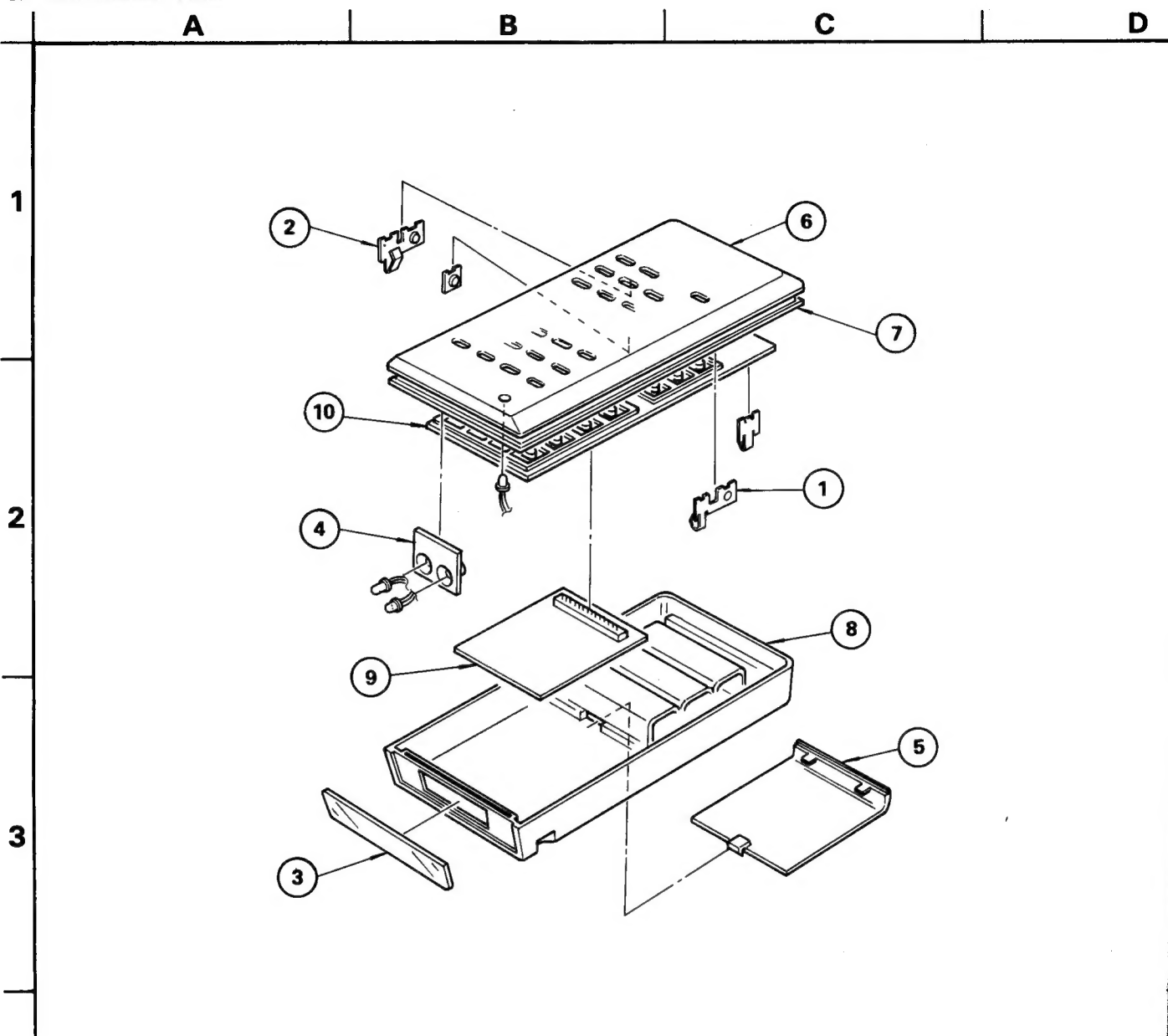


### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF} : \mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalum.
- All resistors are in ohms,  $\frac{1}{4}\text{W}$  unless otherwise noted.  $\text{k}\Omega : 1000\Omega$ ;  $\text{M}\Omega : 1000\text{k}\Omega$
- : panel designation.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.



### 3. EXPLODED VIEW



<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	2-249-920-00	Terminal (C), battery		5	2-272-507-00	Cover, battery	
2	2-249-921-00	Terminal (D), battery		6	2-272-508-00	Plate, ornamental	
3	2-272-501-00	Plate, frosted		7	2-272-509-00	Case (upper)	
4	2-272-506-00	Mirror		8	2-272-510-00	Case (lower)	
				9	1-602-917-11	R1 Board	
				10	1-602-239-11	R2 Board	

4. ELECTRICAL PARTS LIST

Ref.No	Part No	Description	Remark		
	⚡:1-602-917-00	R1 BOARD *****			
	⚡:1-560-211-00	PLUG, CONNECTOR 15P			
CAPACITOR					
C02	1-161-313-00	CERAMIC	150PF	10%	50V
C03	1-161-313-00	CERAMIC	150PF	10%	50V
FILTER					
CF01	1-527-476-00	OSCILLATOR, CERAMIC			
DIODE					
D01	=>8-719-193-03	DIODE SE303AX			
D02	=>8-719-193-03	DIODE SE303AX			
D03	8-719-812-41	DIODE TLR124			
D04	=>8-719-911-19	DIODE 1SS119			
IC					
IC01	8-759-684-84	IC M58484P			
TRANSISTOR					
Q01	8-729-663-47	TRANSISTOR 2SC1364			
RESISTOR					
R01	1-246-467-00	CARBON	560	5%	1/4W
R02	1-246-405-00	CARBON	1.5	5%	1/4W
R03	1-246-429-00	CARBON	15	5%	1/4W

NOTE:

The components identified by shading and mark ⚡ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "⚡" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF : μF, PF : μμF

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH : μH

# STANDARD PARTS LIST

## ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one.						
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.	63 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47						→	→
1.0						→	→
2.2						→	→
3.3						→	→
4.7				→	→	→	1-123-369-00
10			→	→	→	1-123-356-00	1-123-370-00
22			→	1-123-330-00	→	1-123-357-00	1-123-371-00
33	→	→	1-123-318-00	→	1-123-343-00	→	1-123-372-00
47	→	1-123-306-00	→	1-123-332-00	→	1-123-359-00	1-123-373-00
100	→	1-123-307-00	→	1-123-333-00	1-123-345-00	1-123-360-00	1-123-374-00
220	→	1-123-308-00	1-123-321-00	1-123-334-00	1-123-346-00	1-123-361-00	1-123-375-00
330	→	1-123-309-00	1-123-322-00	1-123-335-00	1-123-347-00	1-123-362-00	1-123-376-00
470	1-123-298-00	1-123-310-00	1-123-323-00	1-123-336-00	1-123-348-00	1-123-363-00	1-123-377-00
1000	1-123-299-00	1-123-311-00	1-123-324-00	1-123-337-00	1-123-349-00	1-123-364-00	1-123-378-00
2200	1-123-300-00	→	1-123-325-00	1-123-338-00	1-123-350-00		
3300	1-123-301-00	1-123-313-00	1-123-326-00	1-123-339-00			
4700	1-123-302-00	1-123-314-00	1-123-327-00				
6800	1-123-303-00	1-123-315-00					
10000	1-123-304-00						

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

## CERAMIC CAPACITORS

RATING							
CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

## MYLAR CAPACITORS

RATING											
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00		
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00		
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

# 1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

## HARDWARE NOMENCLATURE

Screw:

P 3 x 10

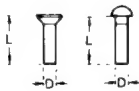
L: Length in mm

D: Diameter in mm

Type of head

Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).



Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft

Reference designation



Reference Designation	Shape	Description	Remarks
<b>SCREWS</b>			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazer-head screw	

Reference Designation	Shape	Description	Remarks
<b>SELF-TAPPING SCREWS</b>			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
<b>SET SCREWS</b>			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
<b>NUT</b>			
N		nut	
<b>WASHERS</b>			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
<b>RETAINING RINGS</b>			
E		retaining ring	
G		grip-type retaining ring	